

THE FLORA OF LATIMER POINT AND VICINITY,  
NEW LONDON COUNTY, CONNECTICUT

STEVEN R. HILL

Center for Biodiversity, Illinois Natural History Survey,  
607 East Peabody Drive, Champaign, IL 61820

ABSTRACT. A long-term floristic study of the macroalgae, bryophytes, and vascular plants in the vicinity of Latimer Point, Stonington, New London County, Connecticut was made from 1969 to 1992. Four-hundred twenty-seven taxa were found including 30 marine macroalgae, 12 mosses, 10 ferns and fern allies, 1 conifer, and 374 flowering plants. Five species are reported as new to southeastern Connecticut: *Cuscuta pentagona*, *Eschscholzia californica*, *Poa palustris*, *Stachys byzantina*, and *Viola priceana*. Two species listed as endangered in Connecticut are known from the area, *Angelica lucida* and *Ligusticum scoticum*, and one species listed as of special concern, *Honckenya peploides*, is also present. Changes in composition of the terrestrial flora during the 25 year period include the invasion of *Ailanthus altissima*, *Elaeagnus umbellata*, and *Paulownia tomentosa*, an increase in populations of 14 exotic species, and the decline of six native species.

Key Words: New England, floristics, Connecticut, coastal plants, bryophytes, marine algae

This flora is the result of an exploration of Latimer Point and its vicinity (including coastal islands) started during 1969 while I was an undergraduate at Bates College in Lewiston, Maine. The site was chosen because my family had built a small cottage on the tip of Latimer Point in the late 1960s, and repeated visits during the next 24 years allowed me to monitor the flora until the property was sold in 1993. I am aware of no other botanists who have sampled the area during this period.

The study area is on the Mystic 7.5 min. U.S.G.S. topographic quadrangle. It is coastal, along the northern shore of Fishers Island Sound (Figures 1 and 2) within the town of Stonington, at the east side of the community of Mystic. It includes the areas between Pequotsepos Brook on the west to Quiambog Cove to the east on both sides of US Rt. 1 (generally between Lords Point and Mason Island). It extends south to the Sound and includes Lyddy, Andrews, and Dodges Islands.

The surface geology is made up of till from the Wisconsin glaciation (dating to about 14,000 B. P.) which includes numerous



Figure 1. Towns in southeastern Connecticut. (After Tucker 1995; map prepared by Patricia M. Kernan)

large and small smoothed boulders, cobbles, pebbles, and sand as well as glacially scoured and smoothed gneissic and granitic outcrops. Organic materials, such as peats, have accumulated over this till in some areas, especially in the salt marshes. The soils are moderately acidic, pH ranges from ca. 5.0 to 6.5, except for the Pawcatuck-Westbrook soils of the tidal marshes which are acidic to circumneutral, pH (5.1–) 6.5 to 7.8 (Tucker 1995). The coast here is gradually submerging. Salt marshes are being eroded on the Sound side (south) and are expanding slowly inland. The presently isolated small coastal islands were connected to the land by sand ridges and salt marsh less than 100 years ago and were used as cow pastures according to long-time residents with whom

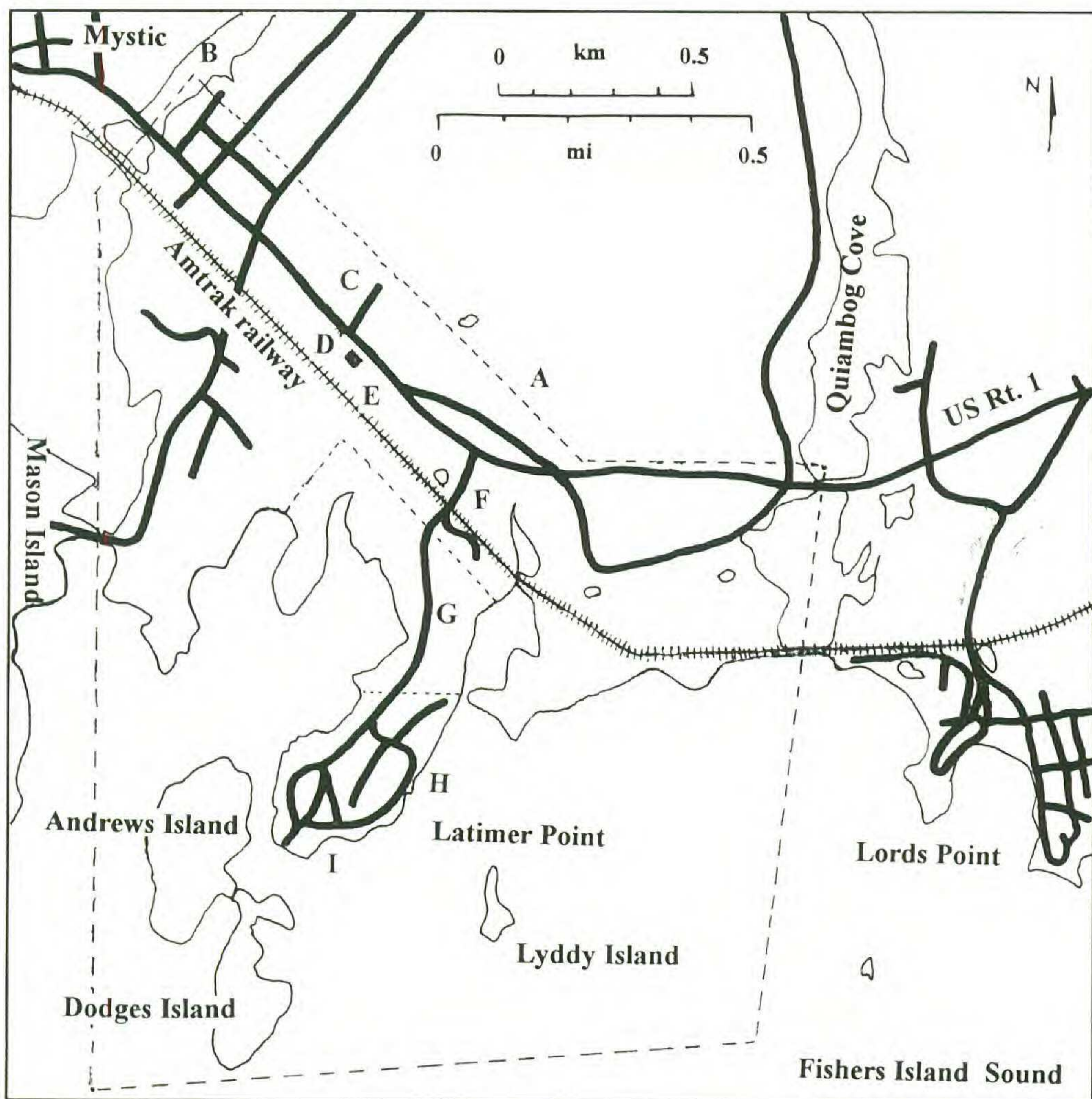


Figure 2. Latimer Point and vicinity. A. study area boundary; B. Pequotsepos Brook; C. Long Wharf Road; D. VFW post; E. old landfill; F. Latimer Point Road; G. nature preserve (The Nature Conservancy); H. back beach; I. main beach.

I spoke. These connections are now under water, though shallow at low tide.

The region's forests were cut in the 1700s and 1800s and the area became pasture. The area was not cultivated due to the extremely rocky nature of the soils. Since about the 1930s the oak forests have grown back and only an occasional tree has been harvested for fuel. From the 1960s to the present, areas along US Rt. 1 have been cleared again and developed for business and housing, but Latimer Point itself has had no additional development.

About a third of Latimer Point is owned and protected by The

Nature Conservancy. This protected land includes oak forest, tidal marshes, and assorted tidal rocks. The southern half of the peninsula is residential, with a small number of family cottages on small lots, two private beaches and a recreational field. The remainder of the peninsula is public land and Amtrak railroad right-of-way. Lyddy Island is located just off the southern tip of the point, and Dodges and Andrews Islands are located just to the southwest of the point. The islands are smoothed granitic outcrops liberally covered with glacial till. The southwestern tip of Latimer Point historically was the site of a fish processing factory. The soils are dark and humus-rich in this area. Ruins of the factory still can be seen behind an old retaining wall. Just east of the point is an inlet and then an isolated sand/gravel beach which proceeds east towards Lords Point. Thompson (1950) presents an interesting history of the area including Latimer Point.

Latimer Point is located in an area where a more northern flora with arctic affinities meets the temperate coastal plain floras of the eastern United States. Information on species ranges for taxa in this list can be obtained from Gleason and Cronquist (1991). Species approaching their southern limits include *Angelica lucida* (Long Island to Labrador, north Pacific to northern Asia), *Ligusticum scoticum* (Long Island to arctic Greenland and northern Europe) and *Plantago maritima* (circumboreal, south to New Jersey). Species approaching their northern limits include *Athyrium filix-femina* var. *asplenioides* (on the east coast from Florida north to Rhode Island), *Baccharis halimifolia* (on the east coast from Florida north to Massachusetts), and *Dioscorea villosa* (on the east coast from Florida north to Connecticut). The study area is significant also because it is one of the few coastal areas of southern New England that has had little development since the 1960s. No new homes have been built on Latimer Point since that time and the extent of the habitats has remained essentially unchanged.

Tucker (1995) described 12 plant associations in southeastern Connecticut: Ponds and Lakes, Coastal Beaches and Dunes, Estuaries, Tidal Marshes, Freshwater Marshes, Shrub Swamps, Red Maple Swamps, Oak and Oak-Hickory Forests, Old Fields and Pastures, Pastures and Lawns, Cropland and Gardens, and Roadsides. Since some of these associations (which are termed habitats in this paper) on Latimer Point are very poorly developed and overlap considerably with others, I have adapted and modified them to result in the following seven habitats in the study area:

1. **Estuaries.** This habitat is extensive and well developed in the study area, making up most of the shallow waters on the east and west sides of the point. It here includes both saline and brackish waters and their associated sandbars and mudflats from 0 to 3 m deep that are part of the northern portion of Fishers Island Sound. These areas are dominated by seaweeds and *Zostera* depending on substrate, currents, and salinity.

2. **Coastal beaches and dunes.** These are rocky, gravelly beaches with sand, and are well developed only along the beach to the east of the Point. The two beaches (the main and back beaches) of Latimer Point itself are maintained artificially; new sand is brought in by the residents nearly every year to replenish sand washed out into the Sound in winter storms. There are small natural beaches on Lyddy Island and Dodges Island but their coasts are mostly rocky with numerous small to huge, smoothed, glacial boulders. The beaches are dominated by halophytes such as *Ammophila*, *Cakile*, and members of the Chenopodiaceae.

3. **Tidal marshes.** Well-developed tidal marshes occur northwest and northeast of the Point, at the southern end of Andrews Island, the northern end of Dodges Island, and on a small portion of Lyddy Island. These are dominated by *Distichlis*, *Iva*, *Limonium*, *Spartina*, and members of the Chenopodiaceae.

4. **Freshwater marshes.** This includes ponds and lakes. Poorly developed freshwater marshes occur along the northern side of the Amtrak railroad right-of-way and along US Rt. 1. Most of those along the railroad were formed when the elevated right-of-way prevented the influx of brackish water into former tidal areas, changing them into freshwater systems. These are dominated by sedges, *Hibiscus*, and various shrubs. One pond with water lilies is located at the northeast side of the railroad tracks just southwest of the junction of US Rt. 1 and Latimer Point Road; while normally full of water all year, this pond dries completely in drought years.

5. **Shrub swamps.** This includes Red maple swamps. Poorly developed shrub swamps occur alongside the freshwater marshes; perhaps the best developed is at the southwest side of the junction of US Rt. 1 and Latimer Point Road. They are dominated by

indigenous species of *Acer*, *Clethra*, *Rhododendron*, *Salix*, and *Vaccinium*.

**6. Oak forest.** Rather well-developed secondary growth oak forest, perhaps better termed maritime oak forest, occurs on the northern half of Latimer Point and on the peninsula just to its northwest. The trees grow among large boulders in very rocky soil. This habitat is dominated by *Amelanchier*, *Quercus*, *Smilax*, *Vaccinium*, and *Vitis*.

**7. Disturbed land.** This includes old fields and pastures, pastures and lawns, croplands and gardens, and roadsides of Tucker (1995). Also included here are railroad rights-of-way. Only small residence gardens are found on the Point, but some cleared fields and an old landfill, as well as a few businesses, are found along US Rt. 1. Most of the diversity is due to introduced European weeds and casual escapes from cultivation.

#### MATERIALS AND METHODS

Tucker (1995) has treated the entire vascular flora in the area of southeastern Connecticut, which includes the area in this paper. With a few exceptions, I have followed the nomenclature used in that paper. Gleason and Cronquist (1991) has also served as a nomenclatural reference. Synonyms have been included if they commonly are used as accepted names in other regional floras and manuals. Nomenclature for the marine algae follows Schneider and Searles (1991).

Information on plants listed as endangered, threatened, or of special concern in Connecticut was obtained from the Natural Diversity Data Base maintained by staff at the Natural Resources Center, Connecticut Department of Environmental Protection in Hartford (pers. comm., 1996).

While I collected and observed the flora in the vicinity of Latimer Point for over two decades, there are still undoubtedly some taxa (especially algae and bryophytes) that I did not collect due to oversight or due to some nook or cranny that remained unexplored. The islands were accessed by small boat and the rest of the area was explored on foot.

The plants are listed first by major group, division, or class, and then alphabetically by family and scientific name. The flora

was documented by means of voucher specimens preserved according to standard herbarium techniques (Hill 1995). These voucher specimens have been deposited in several herbaria (cited after the specimens) indicated by acronyms as published in *Index Herbariorum* (Holmgren et al. 1990) with the exception of the personal herbarium of the author (srh), and the herbarium at Trinity College, Hartford, CT (tr). All specimens cited were collected by the author. The Hill collection numbers and years of collection were as follows: 1969: 576–697 (not a mistake—these were numbered later); 1970: 293–330; 1971: 788–801; 1972: 924–953; 1973: 1152–1245; 1978: 7413–7445; 1979: 8718–8755; 1980: 9104–9449; 1981: 10062–10804; 1982: 11802–11834; 1983: 11855–13222; 1986: 17061–17063; 1987: 18645–18650; 1988: 19714–19804; 1989: 20806–20807; 1990: 21599–21798; 1991: 22471–22518; 1992: 23081–24186.

#### RESULTS

The species listings below contain the following data: \* = non-native species; Scientific name (with major synonyms in brackets); Common name (if known); Frequency: Abundant (locally dominant), Frequent (common), Occasional, Infrequent (uncommon), Scarce (rare); Plant habitat: as above; Temporal status: Increasing (becoming more frequent during observation period), Declining (becoming less frequent during observation period), Stable (population neither increasing nor declining), Waif (may not persist, seen once); Collection number; Herbaria where specimens were deposited.

#### CHLOROPHYCOPHYTA (Green Algae)

- Bryopsis plumosa* (Hudson) C. Agardh. Infrequent, Estuaries, Stable. 931 (VT).  
*Cladophora* cf. *albida* (Hudson) Kutz. Occasional, Estuaries, Increasing. 21678 (srh).  
*Cladophora sericea* (Hudson) Kutz. Occasional, Estuaries, Stable. 18646 (srh, CLEMS); 21677 (srh).  
*Codium fragile* (Suringar) Hariot subsp. *tomentosoides* (van Goor) Silva. Frequent, Estuaries, Stable. 580A (VT); 580B (VT); 18645 (srh, CLEMS, FH, MARY, MO, NY, USE, NY).  
*Enteromorpha intestinalis* (L.) Link. Occasional, Estuaries, Stable. 18647 (srh, CLEMS, FH, MO, NY, VT).  
*Enteromorpha* sp. Occasional, Estuaries, Stable. 576 (VT); 21671 (srh, tr, CLEMS).

*Ulva lactuca* L., Sea lettuce. Frequent, Estuaries, Stable. 21674 (srh, tr, CLEMS, NY, PE, TAES, USF, WVA).

#### CYANOPHYCOPHYTA (Blue-Green Algae)

*Lyngbya aestuarii* Lieb. Scarce, Estuaries, Stable. 20807 (srh).

#### PHAEOPHYCOPHYTA (Brown Algae)

*Ascophyllum nodosum* (L.) Le Jol., Rock kelp. Frequent, Estuaries, Stable. 21681 (srh, tr, CLEMS, NY, TAES, USF, WVA).

*Chorda filum* (L.) Stackhouse. Occasional, Estuaries, Stable. 606 (VT); 21667 (srh, tr, CLEMS, NY).

*Cladosiphon zosterae* (J. Ag.) Kylin. Occasional, Estuaries, Stable. 610 (VT as *Eudesme zosterae*); 21672 (srh, CLEMS).

*Elachista fucicola* (Vell.) Aresch. Infrequent, Estuaries, Stable. 21676 (srh).

*Fucus vesiculosus* L., Rockweed. Abundant, Estuaries, Stable. 10144 (srh, FH, MARY, NY, TAES, VT); 21679 (srh, tr, CLEMS, FH, NY).

*Laminaria saccharina* (L.) Lamouroux (distrib. as *L. agardhii* Kjellman), Kelp. Frequent, Estuaries, Stable. 612A (VT); 21670 (srh, tr, CLEMS, NY).

*Leathesia difformis* (L.) Aresch. Infrequent, Estuaries, Declining? 615 (VT).

*Scytosiphon lomentaria* (Lyngb.) Link. Occasional, Estuaries, Stable. 21680 (srh, tr, CLEMS, FH, NY).

*Stilophora rhizoides* (Turner) J. Ag. Infrequent, Estuaries, Stable. 18648 (srh).

#### RHODOPHYCOPHYTA (Red Algae)

*Antithamnion cruciatum* (C. Ag.) Naeg. Infrequent, Estuaries, Stable. 21667A (srh).

*Ceramium rubrum* (Huds.) C. Ag. Frequent, Estuaries, Stable. 21675B (srh, tr, CLEMS, NY).

*Champia parvula* (C. Ag.) Harvey. Frequent, Estuaries, Stable. 585 (NCU, VT); 932 (VT); 21680B (srh).

*Chondria baileyana* (Montagne) Harvey. Frequent, Estuaries, Stable. 586 (NCU, VT); 933 (VT); 18649 (srh); 18650 (srh, CLEMS).

*Chondrus crispus* Stackhouse, Irish moss. Frequent to Occasional, Estuaries, Declining. 19714 (srh, CLEMS, USCH).

*Dasya baillouviana* (Gmel.) Mont. Infrequent, Estuaries, Declining. 943 (VT as *Dasya elegans*); 21667B (srh).

*Gracilaria tikrahae* McLachlan [*Gracilaria foliifera* (Forsskal) Boergeson, misapplied]. Frequent, Estuaries, Stable. 591B (VT); 21669 (srh, tr, CLEMS, NY).

*Grinnellia americana* (C. Ag.) Harvey. Infrequent, Estuaries, Stable. 21668 (srh).

*Polysiphonia harveyi* Bailey. Frequent, Estuaries, Stable. 21673 (srh, tr, CLEMS, NY).

*Polysiphonia nigrescens* (Huds.) Grev. Frequent, Estuaries, Stable. 21675A (srh, tr, CLEMS, NY).

*Polysiphonia* sp. Frequent, Estuaries, Stable. 597 (VT).

*Spermothamnion repens* (Dillwyn) Rosenv. Infrequent, Estuaries, Stable. 18650A (srh, CLEMS).



*Spyridia hypnoides* (Bory) Papenfuss. Occasional, Estuaries, Stable. 21680A (srh).

### BRYOPHYTA (Mosses)

- Atrichum angustatum* (Brid.) B. S. G. Occasional to Frequent, Oak forest, Stable. 21629 (srh, CLEMS, DUKE, MO, NY, TAES, USF).
- Aulacomnium palustre* (Hedw.) Schwaegr. Occasional, Shrub swamps, Stable. 21712 (srh, CLEMS, DUKE, NY).
- Brachythecium acuminatum* (Hedw.) Aust. Infrequent, Oak forest, Shrub swamps, Stable. 21719A (srh, CLEMS, DUKE, FH, NY).
- Bryum lisae* De Not. var. *cuspidatum* (B. S. G.) Marg. Infrequent, Oak forest, Disturbed land, Stable. 21699 (srh, CLEMS, DUKE, NY).
- Ceratodon purpureus* (Hedw.) Brid. Occasional, Oak forest, Disturbed land, Stable. 21628 (srh, CLEMS, DUKE).
- Heterophyllum affine* (Hk.) Fleisch. Occasional, Oak forest, Stable. 22471 (srh, CLEMS, DUKE, MO, NY, USF).
- Hypnum imponens* Hedw. Occasional, Shrub swamps, Stable. 21710 (srh, CLEMS, DUKE, NY).
- Plagiomnium cuspidatum* (Hedw.) T. Kop. Occasional, Oak forest, Disturbed land, Stable. 21630 (srh, DUKE).
- Polytrichum ohioense* Ren. & Card. Infrequent, Oak forest, Shrub swamps, Stable. 21718 (srh, CLEMS, DUKE, FH).
- Sphagnum* sp., Sphagnum moss. Infrequent, Shrub swamps, Stable. 21711 (srh).
- Steerecleus serrulatus* (Hedw.) Robins. Infrequent, Shrub swamps, Stable. 21719 (srh, CLEMS, DUKE, FH, NY).
- Thelia hirtella* (Hedw.) Sull. Infrequent, Oak forest, Stable. 22471A (srh, CLEMS, MO, NY, USF).

### EQUISETOPHYTA (Horsetails)

#### EQUISETACEAE

- Equisetum arvense* L., Common horsetail. Scarce, Disturbed land, Stable. 21721 (srh, CLEMS, NYS).

### POLYPODIOPHYTA (Ferns)

#### DENNSTAEDTIACEAE

- Dennstaedtia punctilobula* (Michx.) Moore, Hay-scented fern. Frequent, Oak forest, Disturbed land, Increasing. 21652 (srh, CLEMS, GH, KANU, NY, NYS, TAES, USF, UT).
- Pteridium aquilinum* (L.) Kuhn var. *latiusculum* (Desv.) Underw., Bracken fern. Frequent, Oak forest, Disturbed land, Stable. 9383 (srh, MARY, NY, TAES, VT).

#### DRYOPTERIDACEAE

- Athyrium filix-femina* (L.) Roth. var. *asplenioides* (Michx.) Farw., Southern lady fern. Infrequent, Shrub swamps, Stable. 21787 (srh, CLEMS, GH, LG, NY, TAES, UC, USF).

*Onoclea sensibilis* L., Sensitive fern. Occasional to Infrequent, Freshwater marshes, Shrub swamps, Stable. 21664 (srh, CLEMS, UC).

#### OSMUNDACEAE

*Osmunda cinnamomea* L., Cinnamon fern. Frequent, Shrub swamps, Stable. 9121 (srh, MARY, NY, VT); 10084 (BH, CLEMS, GH, MARY, MO, NY, SMU, TAES, VT).

*Osmunda claytoniana* L., Interrupted fern. Occasional to Infrequent, Shrub swamps, Declining. 10081 (srh, GH, MARY, MO, NY, TAES, VT).

*Osmunda regalis* L. var. *spectabilis* (Willd.) A. Gray, Royal fern. Occasional to Infrequent, Shrub swamps, Stable. 9381 (MARY, MO, NY, TAES, VT); 10070 (GH, MARY, NY, TAES, VT); 21693 (CLEMS, GH, NY, NYS).

#### THELYPTERIDACEAE

*Thelypteris noveboracensis* (L.) Nieuwl., New York fern. Occasional, Freshwater marshes, Shrub swamps, Stable. 21788 (srh, CLEMS, GH, NY, UC).

*Thelypteris palustris* Schott var. *pubescens* (Lawson) Fern., Marsh fern. Frequent, Freshwater marshes, Stable. 9378 (srh, MARY, NY, VT).

### PINOPHYTA (Conifers)

#### CUPRESSACEAE

*Juniperus virginiana* L., Red-cedar. Frequent, Oak forest, Disturbed land, Stable. 939 (NCU, VT); 9409 (srh, MARY, NY, VT).

### MAGNOLIOPHYTA (Flowering Plants)

#### LILIOPSIDA (Monocotyledons)

#### ALISMATACEAE

*Alisma plantago-aquatica* L. [*A. subcordatum* Raf.], Water-plantain. Scarce, Freshwater marsh, Stable. 21769 (srh, CLEMS, UNA).

#### AMARYLLIDACEAE

*Hypoxis hirsuta* (L.) Cov., Yellow star-grass. Scarce, Oak forest, Disturbed land, Stable. 22472 (USF).

#### ARACEAE

*Arisaema triphyllum* (L.) Schott ex Schott & Endl., Jack-in-the-pulpit. Scarce, Shrub swamps, Stable. 22514 (srh).

#### COMMELINACEAE

\**Commelina communis* L., Day-flower. Infrequent, Disturbed land, Stable. 21651 (srh, BAA, CLEMS, CTES, GH, NY, NYS, TAES, USF).

## CYPERACEAE

- Bulbostylis capillaris* (L.) Clarke, Hair sedge. Frequent to Occasional, Freshwater marsh, Disturbed land, Stable. 9363 (srh, MARY, MO, NY, TAES, VT).
- Carex albicans* Willd. var. *emmonsii* (Dewey) Rettig, Sedge. Occasional to Infrequent, Shrub swamps, Stable. 23087 (srh, CLEMS, MICH).
- Carex blanda* Dewey, Sedge. Occasional, Disturbed land, Stable. 23116 (srh, CLEMS, MICH, NY, TAES, USCH, USF).
- Carex cephalophora* Muhl., Sedge. Infrequent, Disturbed land, Stable. 10091 (srh, GH, MARY, MO, NY, TAES).
- Carex crinita* Lam., Sedge. Occasional, Freshwater marshes, Stable. 10097 (srh, GH, MARY, MO, NY, TAES, VT).
- Carex debilis* Michx. var. *rudgei* Bailey, Sedge. Infrequent, Shrub swamps, Stable. 21707 (srh, CLEMS, NYS).
- Carex hormathodes* Fern., Sedge. Occasional, Tidal marshes, Stable. 21697 (srh, CLEMS, GH, MICH, MO, NY, TAES, USCH, USF).
- Carex intumescens* Rudge, Sedge. Occasional, Freshwater marshes, Declining. 10090 (srh, GH, MARY, MO, NY, VT).
- Carex longii* Mack., Sedge. Occasional, Disturbed land, Tidal marshes, Stable. 21640 (srh, CLEMS, GH, MICH, MO, NY, USF); 21732 (CLEMS, MICH); 24186 (NY).
- Carex pennsylvanica* Lam., Sedge. Occasional, Disturbed land, Oak forest, Stable. 23106 (srh, MICH).
- Carex swanii* (Fern.) Mack., Sedge. Occasional, Disturbed land, Stable. 21744 (srh, CLEMS, MICH, NY).
- Carex vulpinoidea* Michx., American fox sedge. Infrequent, Disturbed land, Freshwater marshes, Stable. 21726 (srh, CLEMS, GH, MICH, NY).
- Cyperus diandrus* Torr., Flatsedge. Occasional, Freshwater marshes, Declining. 9437 (srh, GH, MARY, MO, NY, TAES, VT; mixed with 9437A *Fimbristylis autumnalis*).
- Cyperus esculentus* L., Yellow nut-sedge. Frequent to Occasional, Coastal beaches and dunes, Disturbed land, Stable. 950 (NY); 8718 (srh, MARY, NY, VT).
- \**Cyperus lupulinus* (Spreng.) Marcks subsp. *lupulinus* [*C. filiculmis* auth.]. Occasional, Disturbed land, Stable. 9405 (srh, MARY, NY, VT); 21764 (CLEMS). Said to be introduced according to Tucker (1995).
- Cyperus lupulinus* (Spreng.) Marcks subsp. *macilentus* (Fern.) Marcks. Scarce, Disturbed land, Stable. 21641 (srh).
- Eleocharis obtusa* (Willd.) Schult., Spikerush. Occasional, Freshwater marshes, Stable. 9359 (srh, MARY, MO, NY, TAES, VT).
- Eleocharis olivacea* Torr. [*E. flavescens* (Poir.) Urb. var. *olivacea* (Torr.) Gl.], Spikerush. Frequent to Occasional, Freshwater marshes, Stable. 9361 (srh, MARY, NY, TAES, VT).
- Eleocharis palustris* L. [*E. halophila* Fern. & Brackett], Saltmarsh spikerush. Occasional, Tidal marshes, Stable. 21695 (srh, NYS).
- Fimbristylis autumnalis* (L.) Roem. & Schult., Autumn fimbry. Occasional, Freshwater marshes, Stable. 9437A (srh, GH, NY, VT; all mixed with 9437 *Cyperus diandrus*).
- Rhynchospora capitellata* (Michx.) Vahl, Common beak-rush. Occasional, Dis-

turbed land, Freshwater marshes, Stable. 21739 (srh, CLEMS, GH, LG, NY, NYS, TAES, USF).

*Scirpus cyperinus* (L.) Kunth, Common wool-grass. Infrequent, Freshwater marshes, Stable. 9357 (srh, MARY, NY, TAES, VT).

*Scirpus hattorianus* Makino, Bulrush. Occasional, Freshwater marshes, Stable. 21757 (srh, CLEMS, MICH, NY, NYS).

*Scirpus pungens* Vahl [*S. americanus* auth.], Three-square. Frequent to Occasional, Tidal marshes, Stable. 1158 (VT); 9324 (srh, MARY, NY, TAES, VT).

*Scirpus tabernaemontani* Gmel. [*S. validus* auth.], Soft-stem bulrush. Scarce, Freshwater marshes, Stable. 21761 (srh, CLEMS, GH, LG, NY, NYS).

#### DIOSCOREACEAE

*Dioscorea villosa* L., Wild yam. Scarce, Oak forest, Stable. 9312 (srh, MARY, NY, VT).

#### IRIDACEAE

*Iris prismatica* Pursh, Small blue flag. Scarce, Freshwater marshes, Stable. 23085 (srh, CLEMS, NY).

*Iris versicolor* L., Wild iris. Scarce, Freshwater marshes, Stable. 23084 (NY).

*Sisyrinchium montanum* Greene, Blue-eyed grass. Infrequent, Disturbed land, Stable. 21742 (srh, CLEMS as *S. arenicola* Bickn.); 22476 (CLEMS, NY as *S. atlanticum* Bickn.).

#### JUNCACEAE

*Juncus acuminatus* Michx., Rush. Infrequent, Freshwater marshes, Disturbed land, Stable. 22510 (srh).

*Juncus bufonius* L., Toad rush. Infrequent, Freshwater marshes, Disturbed land, Stable. 21746 (srh, CLEMS, NYS).

*Juncus canadensis* J. Gay ex LaHarpe, Marsh rush. Occasional, Freshwater marshes, Disturbed land, Stable. 9362 (MARY, MO, NY, TAES, VT); 21735 (CLEMS, USF).

*Juncus gerardii* Loisel., Black grass. Frequent, Tidal marshes, Stable. 1157 (NY, VT); 9322 (srh, MARY, MO, NY, TAES, VT).

*Juncus marginatus* Rostk., Grass-rush. Infrequent, Freshwater marshes, Disturbed land, Stable. 21685 (srh, CLEMS); 21733 (CLEMS, NY).

*Juncus tenuis* Willd., Path rush. Occasional, Disturbed land, Stable. 9404 (srh, MARY).

*Luzula campestris* (L.) DC. var. *multiflora* (Retz.) Celak, Wood-rush. Infrequent to Scarce, Disturbed land, Stable. 10075 (GH, MARY, NY, TAES, VT).

#### JUNCAGINACEAE

*Triglochin maritimum* L., Arrow-grass. Frequent, Tidal marshes, Stable. 1159 (A, NY, VT); 7413 (srh, VT); 9323 (MARY, MO, NY, TAES, TEX, VT).

#### LILIACEAE

\**Convallaria majalis* L., Lily-of-the-valley. Scarce, Disturbed land, Shrub swamps, Stable. 10078 (srh, MARY, VT).

- Lilium superbum* L., Turk's-cap lily. Scarce, Shrub swamps, Stable to Declining. 788 (VT); 17061 (srh).
- Maianthemum canadense* Desf., Wild lily-of-the-valley. Occasional, Oak forest, Shrub swamps, Stable. 10062 (srh, GH, MARY, MO, NY, TAES, VT).
- \**Muscari botryoides* (L.) Miller, Grape-hyacinth. Infrequent to Scarce, Disturbed land, Stable. 23117 (srh, CLEMS).
- Polygonatum pubescens* (Willd.) Pursh, Solomon's-seal. Scarce, Oak forest, Shrub swamps, Stable. 23089 (NY).
- Smilacina racemosa* (L.) Desf., False solomon's-seal. Scarce, Oak forest, Shrub swamps, Stable. 21781 (USF).
- Uvularia perfoliata* L., Perfoliate bellwort. Scarce, Oak forest, Stable. 10095 (srh, MARY, VT).
- Uvularia sessilifolia* L., Common bellwort. Infrequent, Oak forest, Shrub swamps, Stable. 10067 (srh, GH, MARY, NY, TAES, VT); 21780 (CLEMS); 23090 (NY).

#### POACEAE

- Agrostis scabra* Willd. [*A. hyemalis* (Walt.) BSP. var. *tenuis* (Tuckerm.) Gl.], Fly-away-grass. Occasional, Disturbed land, Stable. 21682 (srh, CLEMS, GH, NMCR as *A. hyemalis*).
- \**Agrostis stolonifera* L. var. *compacta* Hartm., Creeping bent-grass. Frequent to Occasional, Tidal marshes, Stable. 7442 (srh, TAES, VT); 21698 (CLEMS, GH, NMCR, NY, TAES, USF).
- \**Agrostis stolonifera* L. var. *stolonifera*, Creeping bent-grass. Occasional, Disturbed land, Stable. 7422 (srh, LG, TAES, VT); 9325 (TAES).
- \**Agrostis tenuis* Sibth., Rhode Island bent-grass. Frequent, Disturbed land, Stable. 7414 (MARY, TAES); 7416 (TAES, VT); 7418 (TAES, VT); 7425 (srh, TAES, VT); 7427 (srh, TAES).
- Ammophila breviligulata* Fern., Beachgrass. Frequent, Coastal beaches and dunes, Stable. 8719 (MARY, VT); 8741 (srh, MARY, VT).
- Andropogon gerardii* Vitman, Turkey-foot grass; Big bluestem. Occasional to Frequent, Disturbed land, Stable. 8742 (MARY, MO, VT); 9384 (srh, MARY, NY, TAES, VT).
- \**Anthoxanthum odoratum* L., Sweet vernal grass. Frequent, Disturbed land, Stable. 7420 (srh, TAES); 7430 (MARY).
- \**Avena sativa* L., Oats. Scarce, Disturbed land, Stable. 1160 (VT); 21650 (srh, CLEMS).
- \**Bromus tectorum* L., Cheatgrass. Occasional, Disturbed land, Stable. 21619 (srh, CLEMS, GH, NMCR, NY, NYS, TAES, USF).
- Calamagrostis canadensis* (Michx.) Beauv., Bluejoint grass. Infrequent, Tidal marshes, Freshwater marshes, Stable. 694 (VT); 21702 (srh, CLEMS, GH, NMCR).
- \**Dactylis glomerata* L., Orchard grass. Occasional to Frequent, Disturbed land, Stable. 7426 (srh).
- Danthonia spicata* (L.) Beauv., Poverty grass. Infrequent, Disturbed land, Oak forest, Stable. 21653 (srh, CLEMS).
- \**Digitaria sanguinalis* (L.) Scop., Crabgrass. Occasional, Disturbed land, Stable. 21723 (srh, CLEMS).
- Distichlis spicata* (L.) Greene, Spike grass. Frequent, Tidal marshes, Stable. 8720

- (srh, MARY, MO, NY, TAES, VT); 9429 (MARY, MO, TAES, VT); 13221 (GH, MARY, MO, NY, TAES, VT).
- Echinochloa muricata* (Beauv.) Fern. var. *microstachya* Wieg., Barnyard grass. Occasional, Disturbed land, Stable. 21649 (CLEMS); 22477 (srh, CLEMS, GH, NY, MO, TAES, USCH, WVA, USF).
- \**Eleusine indica* (L.) Gaertn., Goosegrass. Scarce, Disturbed land, Stable. 21635 (srh).
- Elymus virginicus* L. Virginia wild-rye. Frequent, Tidal marshes, Coastal beaches and dunes, Disturbed land, Stable. 693 (VT); 9428 (GH, MARY, MO, NY, TAES, VT); 13216 (srh, GH, MARY, NY, TAES, VT).
- \**Elytrigia repens* (L.) Nevski [*Agropyron repens* (L.) Beauv.], Quack-grass. Abundant to Frequent, Disturbed land, Coastal beaches and dunes, Stable. 7424 (MARY, TAES); 7441 (srh, TAES, VT).
- Eragrostis pectinacea* (Michx.) Nees, Love-grass. Infrequent, Disturbed land, Stable. 9397 (srh, MARY, NY, TAES, VT).
- Eragrostis spectabilis* (Pursh) Steud., Tumble-grass. Occasional, Disturbed land, Stable. 9396 (srh, TAES, VT).
- \**Festuca pratensis* Hudson [*F. elatior* L.], Meadow fescue. Occasional, Disturbed land, Stable. 21603 (TAES).
- \**Festuca rubra* L., Red fescue. Frequent, Disturbed land, Stable. 10092 (srh, GH, MARY, MO, NY, TAES, VT).
- Hierochloa odorata* (L.) Beauv. [*Anthoxanthum nitens* (Weber) Schouten & Veldkamp], Sweet grass. Occasional, Tidal marshes, Stable. 21696 (srh, CLEMS, GH, NMCR, NY); 23086 (srh, CLEMS, GH, MO, NY, USF).
- \**Holcus lanatus* L., Velvet-grass. Frequent, Disturbed land, Stable. 7421 (srh, TAES, VT); 21600 (CLEMS, GH, LG, NMCR, NY, USF).
- Leersia oryzoides* (L.) Sw., Cutgrass. Infrequent, Freshwater marshes, Stable. 9372 (MO).
- \**Lolium perenne* L. [*L. multiflorum* Lam.], Rye-grass. Occasional, Disturbed land, Stable. 7435 (srh, TAES).
- Panicum capillare* L., Panic-grass. Occasional, Coastal beaches and dunes, Stable. 8721 (srh, MARY, NY, TAES, VT).
- Panicum clandestinum* L., Deer-tongue grass. Frequent, Oak forest, Disturbed land, Stable. 1162 (NY, VT); 7415 (srh).
- Panicum dichotomiflorum* Michx., Panic-grass. Occasional, Disturbed land, Stable. 24181 (CLEMS, GH, MO, NY, TAES).
- Panicum lanuginosum* Ell. var. *fasciculatum* (Torr.) Fern., Panic-grass. Occasional, Coastal beaches and dunes, Stable. 9438 (srh, NY, VT).
- Panicum meridionale* Ashe, Panic-grass. Occasional, Disturbed land, Stable. 1163 (NY, VT); 21634 (srh, CLEMS, GH, MO, NY, TAES, USAM, USF).
- \**Panicum miliaceum* L., Proso millet. Scarce, Disturbed land, Waif. 22515 (srh, CLEMS, NY).
- Panicum rigidulum* Nees [*P. agrostoides* Spreng.], Panic-grass. Infrequent, Disturbed land, Stable. 22480 (srh, CLEMS, GH, NY, TAES, USF).
- Panicum virgatum* L., Switch grass. Frequent, Disturbed land, Stable. 8743 (srh, MARY, NY, VT).
- Phalaris arundinacea* L., Reed canary-grass. Frequent, Freshwater marshes, Disturbed land, Stable. 21706 (srh, CLEMS, GH, LG, NMCR, NY).

- \**Phleum pratense* L., Timothy. Frequent to Occasional, Disturbed land, Stable. 7423 (srh, TAES).
- Phragmites australis* (Cav.) Trin. ex Steud., Common reed. Frequent, Freshwater marshes, Tidal marshes, Increasing. 8744 (srh, MARY, VT); 21731 (CLEMS, NMCR).
- Poa alsodes* A. Gray, Woodland bluegrass. Infrequent, Oak forest, Stable. 21716 (srh).
- \**Poa annua* L., Annual bluegrass. Infrequent, Disturbed land, Stable. 21617 (srh, CLEMS, GH, NMCR); 23124 (CLEMS, GH, ILLS, MO, NY, SMU, TAES, TEX, USF).
- \**Poa compressa* L., Canada bluegrass. Frequent, Disturbed land, Stable. 7417 (srh, CHAPA, LG, TAES, VT); 7428 (TAES, VT).
- Poa palustris* L., Swamp bluegrass. Infrequent, Oak forest, Disturbed land, Stable. NW quadrant of Latimer Point, 20 Jul 1990, 21717 (srh, CLEMS, LG, NMCR, NY, USF). First record for southeastern Connecticut.
- \**Poa pratensis* L., Kentucky bluegrass. Frequent, Disturbed land, Stable. 21607 (srh, CLEMS, NMCR).
- Schizachyrium scoparium* (Michx.) Nash, Little bluestem. Frequent, Disturbed land, Stable. 9385 (srh, MARY, NY, TAES, VT).
- \**Secale cereale* L., Rye. Infrequent to Scarce, Disturbed land, Stable. 21765 (srh, CLEMS, NMCR).
- \**Setaria glauca* (L.) Beauv., Yellow foxtail. Occasional, Disturbed land, Stable. 9403 (srh, MARY, NY, TAES, VT).
- \**Setaria viridis* (L.) Beauv., Green foxtail. Occasional, Disturbed land, Stable. S side US Rt. 1 near VFW post opposite Long Wharf Road near old landfill, 14 Aug 1980, 9393 (srh, NY, TAES, VT). Not in Tucker (1995).
- Sorghastrum nutans* (L.) Nash, Indian-grass. Occasional to Infrequent, Disturbed land, Stable. 8745 (srh, MARY, NY, VT).
- Spartina alterniflora* Loisel., Cord-grass. Frequent, Tidal marshes, Stable. 695 (VT); 696 (NCU, VT); 8722 (srh, MARY, VT); 9439 (GH, MARY, MO, NY, SMU, TAES, VT); 13219 (CLEMS, GH, MARY, MO, NY, TAES, VT).
- Spartina cynosuroides* (L.) Roth, Tall cordgrass. Occasional, Disturbed land, Freshwater marshes, Stable. 9328 (srh, MARY, TAES, VT).
- Spartina patens* (Ait.) Muhl., Marsh-hay. Abundant, Tidal marshes, Stable. 697 (NCU, VT); 8723 (srh, MARY, NY, TAES, VT); 9432 (MARY, MO, NY, TAES, VT).
- Spartina pectinata* Link, Freshwater cordgrass. Infrequent, Tidal marshes, Stable. 8746 (srh, MARY).
- Triplasis purpurea* (Walt.) Chapm., Purple sand grass. Scarce, Coastal beaches and dunes, Stable. 8747 (srh, MARY).
- Vulpia octoflora* (Walt.) Rydb., Six-weeks grass. Occasional, Disturbed land, Coastal beaches and dunes, Stable. 7419 (srh, TAES); 7429 (MARY, TAES); 7443 (TAES, VT); 7444 (CHAPA, TAES).

#### POTAMOGETONACEAE

- Potamogeton oakesianus* Robbins, Pondweed. Scarce, Freshwater marshes, Stable. 21763 (srh, CLEMS, NY, UNA).

#### RUPPIACEAE

- Ruppia maritima* L., Widgeongrass. Infrequent, Estuaries, Stable. 20806 (srh).

## SMILACACEAE

*Smilax glauca* Walter, Cat-brier. Frequent, Oak forest, Stable. 330 (VT); 9426 (srh, MARY, MO, NY, TAES, VT).

*Smilax rotundifolia* L., Bull-brier. Frequent, Oak forest, Stable. 1245 (NY); 21663 (srh, CLEMS, GH, NYS).

## SPARGANIACEAE

*Sparganium americanum* Nutt., Bur-reed. Scarce, Freshwater marshes, Stable. 21762 (CLEMS, NY).

## TYPHACEAE

*Typha latifolia* L., Common cat-tail. Occasional, Freshwater marshes, Stable. 21730 (CLEMS, NYS).

## ZOSTERACEAE

*Zostera marina* L. var. *stenophylla* Aschers. & Graeb., Eel-grass. Abundant, Estuaries, Stable. Major fluctuations have been seen in the populations, from massive decline in the early 1970s to current abundance. 9334 (srh, MARY, MO, NY, TAES, VT).

## MAGNOLIOPSIDA (Dicotyledons)

## ACERACEAE

\**Acer platanoides* L., Norway maple. Infrequent, Disturbed land, Increasing. 10071 (srh, GH, MARY, MO, NY, TAES, VT); 21759 (CLEMS, NY); 23095 (srh, CLEMS, GH, ILLS, MO, NY, SMU, TAES, TEX, USF); 23101 (srh).

\**Acer pseudoplatanus* L., Sycamore-maple. Scarce, Disturbed land, Increasing. 10243 (srh, GH, MARY, NY, TAES, VT).

*Acer rubrum* L., Red maple. Frequent to Occasional, Oak forest, Shrub swamps, Stable. 9106 (srh, MARY); 23099 (CLEMS, NY).

## AMARANTHACEAE

\**Amaranthus albus* L., Tumbleweed. Infrequent, Disturbed land, Coastal beaches and dunes, Stable. 21655 (srh, CLEMS, NYS).

\**Amaranthus retroflexus* L., Pigweed. Occasional, Disturbed land, Stable. 21636 (srh, CLEMS, NYS).

## ANACARDIACEAE

*Rhus copallina* L., Winged sumac. Occasional, Disturbed land, Oak forest margin, Stable. 9349 (srh, MARY, NY, TAES, VT).

*Rhus glabra* L., Smooth sumac. Occasional, Disturbed land, Stable. 21724 (srh, CLEMS, NYS).

*Rhus typhina* L., Staghorn sumac. Occasional to Infrequent, Disturbed land, Stable. 21694 (srh, CLEMS, GH, LG, NY, NYS).

*Toxicodendron radicans* (L.) Kuntze, Poison ivy. Abundant, Oak forest, Coastal beaches and dunes, Shrub swamps, Disturbed land, Stable. As common on the



islands (often forming dense thickets) as on the mainland. 21720 (srh, CLEMS, GH, LG, NY, NYS).

#### APIACEAE

*Angelica lucida* (L.) Fern. [*Coelopleurum lucidum* (L.) Fern.], Seacoast angelica. Scarce, Tidal marshes (just above reach of high tide), Stable. Included here based on a report in the Connecticut Natural Diversity Data Base, according to which it was last observed in 1978 on Dodges Island. I have not seen a specimen. This species is listed as endangered in Connecticut.

*Cicuta maculata* L., Water-hemlock. Infrequent, Tidal marshes, Freshwater marshes, Stable. 9317 (srh, NY, VT).

*Heracleum lanatum* Michx., Cow-parsnip. Infrequent to Frequent locally, Tidal marshes, Disturbed land, Stable. 326 (VT); 10242 (srh, GH, MARY, MO, NY, TAES, VT).

*Ligusticum scothicum* L., Scotch lovage. Infrequent, Coastal beaches and dunes (just above reach of high tide), stable. Approaching its southernmost range limit. SE quadrant of Latimer Point near main beach, 9 Sep 1979, 8734 (srh, MARY, NY, VT); Dodges Island, 16 Aug 1980, 9440 (NY, TAES, VT). Listed as a plant of Special Concern in Connecticut.

*Ptilimnium capillaceum* (Michx.) Raf., Mock bishop-weed. Infrequent, Disturbed land, Freshwater marshes, Stable. 9377 (srh, GH, MARY, MO, NY, SMU, TAES, VT).

*Sium suave* Walt., Water-parsnip. Infrequent, Freshwater marshes, Stable. 21755 (CLEMS).

#### APOCYNACEAE

*Apocynum androsaemifolium* L., Spreading dogbane. Occasional, Disturbed land, Stable. 9321 (srh, NY, TAES, VT); 21795 (srh).

*Apocynum cannabinum* L., Hemp-dogbane. Infrequent, Disturbed land, Stable. 21692 (srh, CLEMS, GH, LG, NY, NYS).

#### AQUIFOLIACEAE

*Ilex verticillata* (L.) A. Gray, Black alder. Infrequent, Shrub swamps, Disturbed land, Stable. 11833 (VT); 21703 (CLEMS, GH, LG, MOR, NY, TAES, USF).

#### ARALIACEAE

*Aralia nudicaulis* L., Wild sarsaparilla. Infrequent, Oak forest, Stable. 10096 (srh, GH, MARY, NY, TAES, VT).

#### ASCLEPIADACEAE

*Asclepias incarnata* L., Swamp milkweed. Occasional, Freshwater marshes, Stable. 9367 (srh, MARY, NY, VT); 21741 (CLEMS, GH, LG, NY, USF).

*Asclepias syriaca* L., Common milkweed. Occasional, Disturbed land, Stable. 21709 (srh, CLEMS, NYS).

\**Cynanchum nigrum* (L.) Pers., Black swallow-wort. Infrequent, Disturbed land, Stable. 9399 (srh, MARY); 10247 (srh, BH, GH, ILL, MARY, MO, NY, RSA, SMU, TAES, VT).

## ASTERACEAE

- \**Achillea millefolium* L., Yarrow. Occasional, Disturbed land, Stable. 8724 (srh, MARY, VT); 21612 (CLEMS, GH, NY, NYS).
- Ambrosia artemisiifolia* L., Common ragweed. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 944 (NY, VT); 8748 (srh, MARY).
- \**Anthemis cotula* L., Mayweed. Infrequent, Disturbed land, Declining. 9395 (srh, MARY, MO, NY, TAES, VT).
- \**Arctium lappa* L., Great burdock. Occasional to Infrequent, Disturbed land, Stable. 23110 (CLEMS, NY); 24184 (srh, CLEMS).
- \**Artemisia stelleriana* Besser, Beach wormwood. Scarce, Coastal beaches and dunes, Declining. Has not been seen here since 1980. Beach between Latimer and Lords Point, 3 Jul 1978, 7436 (srh, VT).
- \**Artemisia vulgaris* L., Mugwort. Scarce, Disturbed land, Increasing. 21789 (CLEMS, MO); 23118 (CLEMS, NY).
- Aster divaricatus* L., White woods aster. Occasional, Oak forest, Stable. 21783 (CLEMS, GH).
- Aster dumosus* L., Bushy aster. Occasional, Oak forest, Stable. 22474 (srh, CLEMS).
- Aster lanceolatus* Willd. var. *simplex* (Willd.) A. G. Jones, Tall white aster. Frequent, Disturbed land, Stable. 10799 (srh, ILL, MARY, MO, NY, TAES, VT).
- Aster tenuifolius* L., Large salt marsh aster. Occasional, Tidal marshes, Stable. 953 (VT).
- Aster umbellatus* Mill., Flat-top aster. Occasional, Disturbed land, Freshwater marshes, Stable. 9387 (srh, MARY, NY, TAES, VT).
- Baccharis halimifolia* L., Sea-myrtle. Occasional, Coastal beaches and dunes, Disturbed land, Stable. 10801 (srh, GA, GH, ILL, MARY, MO, NY, TAES, VT).
- \**Centaurea maculosa* Lam., Bushy knapweed. Occasional, Disturbed land, Increasing. 21771 (srh, CLEMS, GH, NY, NYS, TAES, USF).
- \**Chrysanthemum leucanthemum* L. [*Leucanthemum vulgare* Lam.], Daisy. Occasional, Disturbed land, Stable. 21700 (srh).
- \**Cichorium intybus* L., Chicory. Occasional, Disturbed land, Stable. 21627 (srh, CLEMS, GH, NYS).
- \**Cirsium vulgare* (Savi) Tenore, Bull thistle. Occasional, Disturbed land, Stable. 21792 (CLEMS, MO).
- Conyza canadensis* (L.) Cronq., Horseweed. Frequent, Disturbed land, Stable. 936 (NY, VT); 9406 (srh, MARY, NY, TAES, VT).
- Erechtites hieraciifolia* (L.) Raf. ex DC., Fireweed. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 8749 (srh, MARY); 9441 (MARY, MO, NY, TAES, VT).
- Erigeron annuus* (L.) Pers., Daisy-fleabane. Scarce, Disturbed land, Stable. 21687 (srh, CLEMS).
- Eupatorium dubium* Willd. ex Poir., Joe-pye-weed. Occasional, Shrub swamps, Stable. 9355 (srh, MARY, NY, VT).
- Eupatorium perfoliatum* L., Boneset. Occasional, Shrub swamps, Freshwater marshes, Stable. 9379 (srh, MARY, NY, TAES, VT); 22478 (srh, CLEMS, GH, MO, NY, TAES, USCH, USF).
- Euthamia graminifolia* (L.) Nutt., Flat-topped goldenrod. Occasional, Disturbed land, Stable. 9352 (srh, MARY, NY, TAES, VT); 10800 (GH, MARY, MO, NY, SMU, TAES, VT); 21749 (NY).

- \**Galinsoga parviflora* Cav., Quickweed. Occasional, Disturbed land, Stable. 21646 (srh).
- Gnaphalium obtusifolium* L., Cudweed. Infrequent, Disturbed land, Stable. 22513 (srh, CLEMS).
- Gnaphalium uliginosum* L., Cudweed. Scarce, Disturbed land, Stable. 21797 (srh, CLEMS).
- \**Hieracium caespitosum* Dum. [*H. pratense* Tausch], Common hawkweed. Infrequent, Disturbed land, Stable. 10073 (CLEMS, MARY).
- \**Hypochoeris radicata* L., Cat's-ears. Infrequent, Disturbed land, Increasing. It was first seen in the study area in 1980. S side US Rt. 1 near VFW post opposite Long Wharf Road near old landfill, 14 Aug 1980, 9390 (CLEMS, MARY, NY, VT). This is a South American plant which is an aggressive weed in the southeastern U.S. but has recently spread north and is increasing its range.
- Iva frutescens* L. subsp. *oraria* (Bartl.) R.C. Jackson, High-tide bush. Frequent, Tidal marshes, Stable. 8750 (CLEMS, MARY); 9430 (MARY, MO, NY, TAES, VT); 13215 (srh, GH, MARY, MO, NY, TAES, VT).
- Lactuca canadensis* L. var. *longifolia* (Michx.) Farw., Wild lettuce. Occasional, Disturbed land, Shrub swamps, Stable. 9348 (srh, GH, MARY, MO, NY, TAES, VT).
- Lactuca canadensis* L. var. *obovata* Wieg., Wild lettuce. Occasional, Disturbed land, Shrub swamps, Stable. 9347 (srh, MARY, NY, VT).
- \**Lactuca serriola* L., Prickly lettuce. Occasional, Disturbed land, Increasing. 24183 (srh, CLEMS, GH, NY).
- \**Matricaria matricarioides* (Less.) Porter, Pineapple-weed. Infrequent, Disturbed land, Stable. 21624 (srh, CLEMS, GH, NY, NYS).
- Prenanthes trifoliolata* (Cass.) Fern., Rattlesnake-root. Infrequent, Oak forest, Stable. 23108 (NY).
- \**Rudbeckia hirta* L. var. *pulcherrima* Farw., Black-eyed Susan. Infrequent, Disturbed land, Stable. 9318 (srh, NY, VT); 21745 (CLEMS, GH).
- Solidago juncea* Ait., Early goldenrod. Frequent, Disturbed land, Stable. 9407 (srh, MARY, NY, TAES, VT); 21737 (CLEMS, NY, NYS).
- Solidago sempervirens* L., Seaside goldenrod. Frequent, Tidal marshes, Coastal beaches and dunes, Stable. 9442 (srh, VT).
- \**Sonchus arvensis* L., Sow-thistle. Infrequent, Disturbed land, Increasing. First seen in the study area in 1979. SW quadrant of Latimer Point near boat ramp, 9 Sep 1979, 8735 (srh, MARY, NY, TAES, VT); spread to Dodges Island, 16 Aug 1980, 9443 (MARY, MO, NY, TAES, VT).
- \**Sonchus oleraceus* L., Milk-thistle. Occasional, Disturbed land, Stable. 21631 (srh, CLEMS, CTES, GH, LG, NY, NYS, USF).
- \**Taraxacum officinale* Weber ex Wiggers, Common dandelion. Occasional, Disturbed land, Stable. 21625 (srh, CLEMS, NYS).

#### BALSAMINACEAE

- Impatiens capensis* Meerb., Touch-me-not. Occasional, Disturbed land, Freshwater marshes, Stable. 8736 (srh, MARY, NY, TAES, VT).

#### BERBERIDACEAE

- \**Berberis thunbergii* DC., Japanese barberry. Occasional, Disturbed land, Oak forest, Increasing. 23092 (srh, CLEMS, GH, NY).

- \**Berberis thunbergii* DC. var. *atropurpurea* Chenault, Purple-leaf Japanese barberry. Infrequent to Scarce, Disturbed land, Increasing. Planted and some escaped at SE quadrant of Latimer Point, 24 Jul 1990, 21791 (srh, CLEMS, GH, LG, NY, USF).
- \**Berberis vulgaris* L., European barberry. Scarce, Disturbed land, Declining. May have been eliminated from Point by clearing of shrubs near main beach in late 1980s. Thicket, SW quadrant of Latimer Point near main beach, 24 May 1980, 9109 (srh, MARY, NY, TAES, VT).

#### BETULACEAE

- Betula populifolia* Marsh., Gray birch. Occasional, Disturbed land, Declining. Succession and increased herbicide treatments along the RR right-of-way have caused a decline in the local population of this species. 9111 (srh, MARY); 10079 (GA, GH, MARY, MO, NY, TAES, VT); 23083 (CLEMS, GH, NY, USF).
- Corylus americana* Walt., Hazelnut. Scarce, Oak forest, Stable. 9310 (srh, NY, VT).

#### BRASSICACEAE

- \**Arabidopsis thaliana* (L.) Heynh., Mouse-ear cress. Scarce, Disturbed land, Stable. 23111 (srh, CLEMS, GH, NY).
- \**Barbarea vulgaris* R.Br., Common wintercress. Frequent, Disturbed land, Stable. 10064 (srh, BAA, GH, MARY, MO, NY, SMU, TAES, VT).
- Cakile edentula* (Bigel.) Hook., Sea-rocket. Occasional, Coastal beaches and dunes, Stable. 1153 (VT); 7439 (srh).
- \**Capsella bursa-pastoris* (L.) Medikus, Shepherd's-purse. Occasional, Disturbed land, Stable. 21620 (CLEMS, CTES, GH, NY, NYS, TAES, USF).
- \**Hesperis matronalis* L., Dame's rocket. Infrequent, Disturbed land, Stable. 10065 (srh, GH, MARY, NY, TAES, VT).
- Lepidium virginicum* L., Peppergrass. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 8725 (srh); 21610 (CLEMS, GH, NY, NYS).
- \**Lunaria annua* L., Money plant. Scarce, Disturbed land, Stable. Garden escape, SE quadrant of Latimer Point at roadsides, 13 May 1992, 23114 (NY).
- \**Raphanus raphanistrum* L., Wild radish. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 1154 (NY, VT); 7438 (CLEMS, VT); 8726 (srh, MARY); 10244 (GH, MARY, MO, NY, TAES, VT).
- \**Sisymbrium officinale* (L.) Scop., Tower-mustard. Scarce, Disturbed land, Stable. 21689 (CLEMS, NYS).
- \**Thlaspi arvense* L., Penny-cress. Infrequent, Disturbed land, Stable. 10245 (MARY, NY, TAES, VT); 21701 (srh).

#### BUXACEAE

- \**Pachysandra terminalis* Sieb. & Zucc., Pachysandra. Infrequent, Disturbed land, Stable. Established in vicinity of residences, SW quadrant of Latimer Point, 13 May 1992, 23102 (CLEMS, GH, NY).

#### CAMPANULACEAE

- Lobelia inflata* L., Indian tobacco. Infrequent, Disturbed land at Oak forest margins, Stable. 22475 (CLEMS, NY).

## CAPRIFOLIACEAE

- \**Lonicera japonica* Thunb., Japanese honeysuckle. Frequent, Disturbed land, Oak forest, Increasing. Distribution of this prolific, pernicious, weedy vine seems to be limited here only by pavement, salt water and dense shade. 21613 (CLEMS, GH, NYS).
- \**Lonicera morrowii* A. Gray, Fly honeysuckle. Frequent, Oak forest, Disturbed land, Increasing. Though this common weedy shrub is damaging to the native plant associations, it is encouraged in local residence yards on the Point. 9113 (srh, MARY, NY, TAES, VT); 21790 (CLEMS, CTES, GH, LG, MO, NY, TAES, USF).
- Sambucus canadensis* L., Common elderberry. Occasional, Shrub swamps, Stable. 9354 (srh, MARY, NY, TAES, VT).
- Viburnum recognitum* Fern. [*V. dentatum* L. var. *lucidum* Ait.], Arrow-wood. Occasional, Oak forest, Shrub swamps, Stable. 9350 (srh, MARY, MO, NY, TAES, VT); 21658 (CLEMS, GH, NY, NYS).

## CARYOPHYLLACEAE

- \**Cerastium fontanum* Baumg. emend. *Jalas* subsp. *vulgare* (Hartman) Greuter & Burdet [*C. vulgatum* L.], Mouse-eared chickweed. Occasional, Disturbed land, Stable. 21609 (CLEMS, GH, NY, MICH, USF); 23126 (ILLS, MICH).
- \**Dianthus armeria* L., Deptford pink. Occasional, Disturbed land, Stable. 21601 (srh, CLEMS, MICH).
- Honckenya peploides* (L.) Ehrh. subsp. *robusta* (Fern.) J. Hultén, Seabeach sandwort. Infrequent, Coastal beaches and dunes, Declining. Beach between Latimer and Lords Points, 30 Jun 1973, 1152 (VT); same locality, 3 Jul 1978, 7440 (srh, VT); same locality, 5 Jun 1983, 12726 (srh, GH, MARY, MO, NY, TAES, VT). This species is listed as a Species of Special Concern in Connecticut.
- Moehringia lateriflora* (L.) Fenzl [*Arenaria lateriflora* L.], Grove sandwort. Occasional, Oak forest margins, Shrub swamps, Stable. 9118 (srh, MARY, NY, VT); 10083 (GH, MARY, NY, TAES, VT); 21705 (srh, CLEMS, GH, LG, NY, USF).
- Sagina decumbens* (Ell.) Torr. & A. Gray, Pearlwort. Infrequent, Disturbed land, Stable. 10088 (srh, GH, MARY, NY, TAES, VT).
- \**Sagina procumbens* L., Pearlwort. Infrequent, Disturbed land, Stable. 22517 (srh, CLEMS).
- \**Saponaria officinalis* L., Bouncing-bet. Occasional to Frequent, Coastal beaches and dunes, Disturbed land, Stable. 8751 (srh, MARY).
- \**Scleranthus annuus* L., Knawel. Infrequent, Disturbed land, Stable. 21632 (srh, CLEMS, MICH).
- \**Silene armeria* L., Sweet William. Infrequent, Disturbed land, Waif. 9400 (MARY, VT).
- \**Silene latifolia* Poir. subsp. *alba* (Mill.) Greuter & Burdet [*Lychnis alba* Mill.], White campion. Occasional, Disturbed land, Stable. 1166 (VT); 21642 (srh, CLEMS, GH, MICH, NY).
- \**Spergularia marina* (L.) Griseb., Sand-spurrey. Occasional to Frequent, Tidal marshes, Disturbed land, Increasing. 8727 (srh, MARY, VT); 9435 (MARY, MO, NY, TAES, VT); 21648 (CLEMS, GH, MICH, MO, NY, TAES, USF); 21793 (srh, CLEMS, GH, MICH, NY, TAES, USF).
- \**Stellaria graminea* L., Grass-leaved chickweed. Occasional to Infrequent, Disturbed land, Stable. 10089 (srh, GH, MARY, NY, TAES, VT); 24182 (srh).

- \**Stellaria media* (L.) Villars, Common chickweed. Occasional, Disturbed land, Stable. 21654 (srh, CLEMS, GH, MICH, NY).

#### CELASTRACEAE

- \**Celastrus orbiculatus* Thunb., Bittersweet. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 1156 (NY, VT); 8752 (srh, MARY); 10087 (GH, MARY, NY, TAES, VT).
- \**Euonymus alatus* (Thunb.) Sieb., Winged spindle-tree. Infrequent, Disturbed land, Oak forest, Increasing. 10063 (srh, GH, MARY, MO, NY, TAES, VT); 23109 (CLEMS, NY, USF).

#### CHENOPODIACEAE

- Atriplex patula* L. var. *hastata* (L.) A. Gray, Orach. Frequent, Coastal beaches and dunes, Stable. 798 (VT); 9444 (srh, MARY, MO, NY, TAES, VT); 10802 (srh, CTESN, GA, GH, MARY, MO, NY, TAES, VT), 10803 (NY, RSA, SMU, TAES, VT).
- Chenopodium album* L., Lamb's-quarters. Frequent, Coastal beaches and dunes, Disturbed land, Stable. 797 (VT); 8728 (MARY, NY, VT); 9401 (GH, MARY, MO, NY, TAES, VT); 17063 (srh, GH, MO, NY, SMU, TAES, VT).
- Salicornia bigelovii* Torr., Annual glasswort. Occasional, Tidal marshes, Stable. 9436 (srh, MARY, NY, TAES, VT).
- Salicornia europaea* L., Annual glasswort. Occasional, Tidal marshes, Stable. 13220 (srh, GH, MARY, MO, NY, TAES, VT).
- Salicornia perennis* Miller [*S. virginica* auth.], Perennial glasswort. Infrequent, Tidal marshes, Stable. 13222 (srh, GH, MARY, MO, NY, TAES, VT).
- Salsola kali* L., Saltwort. Infrequent, Coastal beaches and dunes, Stable. 799 (VT); 8729 (srh, MARY).
- Suaeda linearis* (Ell.) Moq., Sea-blite. Occasional, Tidal marshes, Coastal beaches and dunes, Stable. 948 (NY, VT); 8753 (srh, MARY, VT).

#### CISTACEAE

- Helianthemum bicknellii* Fern., Rockrose. Infrequent, Oak forest, Disturbed land, Stable. 1161 (VT); 9330 (srh, MARY, NY, TAES, VT); 9345 (srh, MARY, NY, TAES, VT).

#### CLETHRACEAE

- Clethra alnifolia* L. var. *alnifolia*, Sweet pepperbush. Frequent, Shrub swamps, Stable. In early August the air throughout the area is filled with the sweet aroma from these shrubs. 9351 (srh, MARY, NY, TAES, VT).

#### CONVOLVULACEAE

- Calystegia sepium* (L.) R.Br. subsp. *americana* (Sims) Brummitt, Wild morning-glory. Frequent, Disturbed land, Tidal marshes, Coastal beaches and dunes, Stable. 316 (VT); 8730 (srh, MARY, VT).
- \**Ipomoea purpurea* (L.) Roth., Common morning-glory. Infrequent, Disturbed land, Increasing. Cultivated and escaped in SE quadrant of Latimer Point near residences, 26 Sep 1981, 10797 (srh, MARY, NY, TAES, VT).

## CORNACEAE

*Cornus amomum* Mill., Silky dogwood. Occasional to Infrequent, Disturbed land, Shrub swamps, Stable. 21760 (CLEMS, GH, NYS).

## CUSCUTACEAE

*Cuscuta pentagona* Engelm. [*C. campestris* Yuncker], Dodder. Scarce, Disturbed land, Increasing. NE quadrant of Latimer Point at RR right-of-way, 5 Aug 1991, 22481 (srh, CLEMS, GH, MO, NY, TAES, USCH, USF); SW quadrant of Latimer Point near boat ramp, 7 Aug 1991, 22503 (srh, CLEMS, GH, NY, USF). First report for southeastern Connecticut.

## ELAEAGNACEAE

\**Elaeagnus umbellata* Thunb., Autumn olive. Occasional to Infrequent, Disturbed land, Increasing. While relatively infrequent in the 1960s and 1970s, this plant has spread very quickly in the 1980s and 1990s in the area. 10074 (GH, MARY, MO, NY, TAES, VT); 21747 (CLEMS, GH, NY, NYS); Latimer Point Road at RR crossing, first sighting on the point itself, 13 May 1992, 23094 (CLEMS, NY).

## ERICACEAE

*Gaylussacia baccata* (Wang.) K. Koch, Huckleberry. Occasional, Oak forest, Stable. 9120 (srh, MARY, NY, TAES, VT); 21704 (CLEMS, GH, NY, TAES, USF).

*Lyonia ligustrina* (L.) DC. var. *ligustrina*, Maleberry. Infrequent, Shrub swamps, Disturbed land, Stable. 9389 (srh, MARY, NY, TAES, VT).

*Rhododendron viscosum* (L.) Torr., Swamp azalea. Infrequent, Shrub swamps, Stable. 21713 (srh, CLEMS, GH, NY, NYS).

*Vaccinium corymbosum* L., Highbush blueberry. Occasional, Oak forest, Shrub swamps, Stable. 9115 (MARY, NY, TAES, VT); 21660 (srh, BAA, CLEMS, CTES, GH, NY, TAES, USF); 23097 (CLEMS, GH, ILLS, MO, NY, PE, TAES, TEX, USF).

*Vaccinium fuscatum* Ait. [*V. atrococcum* (A. Gray) Heller], Highbush blueberry. Frequent, Oak forest, Shrub swamps, Stable. 9116 (MARY, NY, TAES, VT); 9314 (MARY, NY, TAES, VT); 9315 (NY, TAES, VT).

## EUPHORBIACEAE

*Acalypha gracilens* A. Gray, Three-seeded mercury. Scarce, Disturbed land, Stable. 21798 (srh, CLEMS, GH, NY).

*Euphorbia maculata* L. [*Chamaesyce maculata* (L.) Small], Creeping spurge. Occasional, Disturbed land, Stable. 9427 (GH, MARY, MO, NY, SMU, TAES, VT).

*Euphorbia polygonifolia* L. [*Chamaesyce polygonifolia* (L.) Small], Beach spurge. Infrequent, Coastal beaches and dunes, Stable. 8739 (srh, MARY, NY, TAES, VT).

## FABACEAE

*Amorpha fruticosa* L., Indigo bush. Infrequent, Coastal beaches and dunes (above highest tide mark), Stable. 9447 (srh, MARY, NY, TAES, VT).

*Amphicarpaea bracteata* (L.) Fern., Hog-peanut. Occasional, Oak forest margins, Stable. 21794 (srh, CLEMS, ISC).

- Apios americana* Medikus, Ground-nut. Occasional, Oak forest margins, Shrub swamps, Stable. 9356 (srh, GH, MARY, MO, NY, SMU, TAES, VT).
- Baptisia tinctoria* (L.) R.Br. ex Ait. f. var. *crebra* Fern., Indigo-bush. Occasional, Oak forest, Disturbed land, Stable. 9346 (srh, MARY, MO, NY, TAES, VT); 21691 (CLEMS, GH, NY, NYS); 22487 (CLEMS, GH, MO, NY, TAES, USCH, WVA, USF).
- Cassia nictitans* L. [*Chamaecrista nictitans* (L.) Moench], Wild sensitive-plant. Occasional, Disturbed land, Stable. 9402 (srh, MARY, NY, VT).
- \**Coronilla varia* L., Crown vetch. Infrequent, Disturbed land, Stable. 21690 (srh, CLEMS).
- Lathyrus japonicus* Willd. [*Lathyrus maritimus* (L.) Bigel.], Beach pea. Frequent, Coastal beaches and dunes, Stable. 323 (NY, VT); 7437 (srh, VT); 10066 (srh, MARY, NY, VT).
- \**Lathyrus latifolius* L., Sweet pea. Infrequent, Disturbed land, Stable. 24180 (srh).
- Lathyrus palustris* L., Marsh vetch. Infrequent, Tidal marshes (above high tide mark), Stable. 9320 (srh).
- Lespedeza hirta* (L.) Hornem., Lespedeza. Occasional, Disturbed land, Stable. 22483 (srh, CLEMS, GH, NY, TAES, USF).
- \**Lotus corniculatus* L., Bird's-foot trefoil. Infrequent, Disturbed land, Stable. 21727 (srh, CLEMS, NYS).
- \**Medicago lupulina* L., Hop-clover. Infrequent, Disturbed land, Stable. 21626 (CLEMS, ISC, USF).
- \**Melilotus alba* Medikus, White sweet clover. Infrequent, Disturbed land, Stable. 22511 (srh, CLEMS, NY).
- Strophostyles helvula* (L.) Ell., Pink wild bean. Infrequent, Coastal beaches and dunes, Disturbed land, Stable. 801 (VT); 21751 (srh, CLEMS).
- \**Trifolium arvense* L., Rabbit's-foot clover. Infrequent, Disturbed land, Stable. 21621 (srh, CLEMS, ISC).
- \**Trifolium aureum* Pollich [*T. agrarium* L., nom. ambig.], Yellow hop clover. Infrequent, Disturbed land, Stable. 21748 (CLEMS, GH, ISC, NY, USF); 24185 (srh).
- \**Trifolium hybridum* L., Alsike clover. Infrequent, Disturbed land, Stable. 22504 (srh, CLEMS).
- \**Trifolium pratense* L., Red clover. Occasional, Disturbed land, Stable. 21638 (srh, CLEMS, GH, ISC).
- \**Trifolium repens* L., White clover. Occasional, Disturbed land, Stable. 21608 (srh, CLEMS, GH, ISC, LG, NY).
- \**Vicia cracca* L., Tufted vetch. Infrequent, Disturbed land, Stable. 21736 (CLEMS, GH, LG, NY, NYS).

## FAGACEAE

- Quercus alba* L., White oak. Frequent, Oak forest, Stable. 938 (VT); 21662 (CLEMS, GH, NYS).
- Quercus bicolor* Willd., Swamp white oak. Infrequent, Shrub swamps, Declining. Adversely affected by gypsy moth damage in the early-mid 1980s. 10080 (srh, GH, MARY, MO, NY, TAES, VT); 19804 (srh, CLEMS, MOR, NY, USF, VT).
- Quercus rubra* L., Red oak. Infrequent, Oak forest, Stable. 937 (VT).
- Quercus velutina* Lam., Black oak. Abundant, Oak forest, Stable. 9110 (MARY, VT); 9311 (MO, NY, VT); 9329 (srh, VT); 21708 (CLEMS, MOR, TAES); 21714 (CLEMS, MOR, NY).



## GERANIACEAE

*Geranium maculatum* L., Wild geranium. Infrequent, Oak forest, Shrub swamps, Stable. 10098 (srh, GH, MARY, NY, TAES, VT).

## HALORAGACEAE

*Proserpinaca palustris* L., Mermaid-weed. Infrequent, Freshwater marshes, Stable. 9326 (MARY, MO, VT); 9373 (srh, MARY, NY, TAES, VT).

## HYPERICACEAE

*Hypericum boreale* (Britton) Bickn. [*H. mutilum* subsp. *boreale* (Britton) Gillett], Northern Saint John's-wort. Frequent, Freshwater marshes, Stable. 9364 (srh, GH, MARY, MO, NY, SMU, TAES, VT).

*Hypericum gentianoides* (L.) BSP., Orange grass. Infrequent, Disturbed land, Stable. 9382 (srh, GH, MARY, MO, NY, SMU, TAES, VT).

*Hypericum majus* (A. Gray) Britton, Greater Saint John's-wort. Infrequent, Disturbed land, Freshwater marshes, Stable. 22484 (srh); 22518 (srh, CLEMS, GH, NY, USF).

\**Hypericum perforatum* L., Saint John's-wort. Occasional, Disturbed land, Stable. 9319 (srh, VT); 21645 (srh, CLEMS, GH, NY, NYS, TAES, USF).

*Hypericum punctatum* Lam., Saint John's-wort. Infrequent, Oak forest, Disturbed land, Stable. 21753 (srh, CLEMS); 21785 (srh).

*Triadenum virginicum* (L.) Raf., Pink Saint John's-wort. Frequent to Occasional, Freshwater marshes, Shrub swamps, Stable. 928 (VT); 9360 (srh, MARY, MO, NY, TAES, VT).

## LAMIACEAE

\**Ajuga reptans* L., Carpet-bugleweed. Occasional, Disturbed land, Stable. Lawn weed in residential area. 23120 (CLEMS, GH, MO, NY, USF).

\**Glechoma hederacea* L., Ground-ivy. Occasional, Disturbed land, Stable. 23112 (srh, CLEMS).

\**Lamium purpureum* L., Purple dead-nettle. Scarce, Disturbed land, Stable. 23113 (srh, CLEMS).

*Lycopus americanus* Muhl. ex Barton, Bugleweed. Occasional, Freshwater marshes, Disturbed land, Increasing. 21770 (srh, CLEMS, NY, NYS, TAES, USCH, USF); 22479 (CLEMS, GH, NY, TAES, USF).

*Lycopus uniflorus* Michx., Bugleweed. Infrequent, Freshwater marshes, Stable. 9368 (srh, MARY, NY, TAES, VT).

\**Nepeta cataria* L., Catnip. Infrequent, Disturbed land, Stable. Dodges Island, 16 Aug 1980, 9445 (MARY, VT).

*Pycnanthemum muticum* (Michx.) Pers., Mountain-mint. Infrequent, Oak forest, Disturbed land, Stable. 21786 (srh, CLEMS).

\**Stachys byzantina* C.Koch, Lamb's-ears. Scarce, Disturbed land, Waif. S side US Rt. 1 near VFW post opposite Long Wharf Road, 22 Jul 1990, 21768 (srh, CLEMS, NY). First report for southeastern Connecticut.

*Teucrium canadense* L. var. *canadense*, Seaside germander. Occasional, Disturbed land, Tidal marshes (above highest tide mark), Stable. 934 (VT); 9446 (srh, MARY, NY, VT); 21615 (srh, CLEMS, GH, NY, NYS).

*Trichostema dichotomum* L., Blue-curls. Infrequent, Disturbed land, Stable. 9344 (srh, MARY, NY, TAES, VT).

#### LAURACEAE

*Sassafras albidum* (Nutt.) Nees, Sassafras. Occasional, Oak forest margins, Stable. 9112 (NY, VT); 21643 (CLEMS, GH, NY, NYS); 23098 (srh, CLEMS, GH, ILLS, MO, NY, TAES, USF).

#### LINACEAE

*Linum striatum* Walt., Yellow wild flax. Infrequent, Disturbed land, Stable. 21740 (srh, CLEMS, NYS as *L. virginianum* L.).

#### LYTHRACEAE

\**Lythrum salicaria* L., Purple loosestrife. Occasional to Infrequent, Disturbed land, Freshwater marshes, Stable. 9391 (srh, MARY, MO, NY, TAES, VT).

#### MALVACEAE

\**Abutilon theophrasti* Medikus, Velvet-leaf. Scarce, Disturbed land, Waif. SW quadrant of Latimer Point in hedgerow, 8 Sep 1979, 8733 (srh, MARY, NY, TAES, VT).

*Hibiscus palustris* L., Wild hibiscus. Infrequent, Freshwater marshes, Declining. The showiest flower of Latimer Point; very attractive when in full flower in mid-August. The single pond where it grows is vulnerable to herbicide runoff from the RR right-of-way and to any road or RR construction nearby. One location, pond, NW quadrant of Latimer Point, 21 Aug 1972, 924 (NY, VT); same locality, 13 Aug 1980, 9366 (srh, GH, MARY, MO, NY, TAES, VT). Gleason and Cronquist (1991) and Tucker (1995) consider this a synonym of *Hibiscus moscheutos* L., but I prefer to recognize these northern all-pink forms as specifically distinct. In our area, they are never mixed with the white flowered *H. moscheutos*, which is more southern.

\**Malva neglecta* Wallr., Common mallow. Scarce, Disturbed land, Stable. 21623 (srh).

#### MELASTOMATACEAE

*Rhexia virginica* L., Meadow-beauty. Infrequent, Disturbed land, Freshwater marshes, Stable. 21750 (CLEMS); 21796 (srh, CLEMS).

#### MOLLUGINACEAE

\**Mollugo verticillata* L., Carpetweed. Frequent, Disturbed land, Stable. 9398 (srh, NY, TAES, VT); 21605 (CLEMS, GH, NY, NYS).

#### MONOTROPACEAE [within Ericaceae in Tucker 1995]

*Monotropa uniflora* L., Indian pipe. Scarce, Oak forest, Stable. 11855 (CLEMS); 21659 (srh, CLEMS).

## MYRICACEAE

- Comptonia peregrina* (L.) Coult., Sweet-fern. Infrequent, Disturbed land, Oak forest margins, Stable. 22486 (srh, CLEMS, CM, GH, KANU, MO, NCU, NY, RSA, TAES, USCH, USF, UTC, WVA,); 23091 (srh, CLEMS, GH, MO, NY, SMU, TAES, TEX).
- Myrica pensylvanica* Loisel., Bayberry. Occasional, Disturbed land, Coastal beaches and dunes (above highest tide mark), Stable. 9117 (srh, MARY, NY, TAES, VT); 9380 (srh, MARY, NY, TAES, VT).

## NYMPHAEACEAE

- Nymphaea odorata* Dryand. ex Aiton, Water-lily., Scarce, Freshwater marshes, Declining. In the pond with *Hibiscus*, NW quadrant of Latimer Point, 4 Jul 1980, 9327 (srh, MARY, VT).

## NYSSACEAE

- Nyssa sylvatica* Marsh. var. *sylvatica*, Black gum. Occasional, Oak forest margins, Stable. 10100 (srh, CLEMS, GH, MARY, MO, NY, TAES, VT).

## OLEACEAE

- \**Ligustrum vulgare* L., European privet. Infrequent, Disturbed land, Increasing. 9308 (srh); 23105 (srh, CLEMS).

## ONAGRACEAE

- Ludwigia alternifolia* L., Seedbox. Infrequent, Freshwater marshes, Disturbed land, Stable. 21738 (srh, CLEMS).
- Ludwigia palustris* (L.) Ell., Water purslane. Infrequent, Freshwater marshes, Stable. 9374 (srh, MARY, NY, TAES, VT).
- Oenothera biennis* L., Evening-primrose. Frequent, Disturbed land, Coastal beaches and dunes, Stable. 8731 (srh, MARY); 9388 (MARY, NY, VT as *O. parviflora* L.).

## OXALIDACEAE

- Oxalis stricta* L., Sour-grass. Occasional, Disturbed land, Stable. 21622 (srh).

## PAPAVERACEAE

- \**Chelidonium majus* L., Celandine. Scarce, Disturbed land, Increasing. Seen but not vouchered in residential area in SE quadrant of Latimer Point, starting in 1982 (pers. obs.). It is frequent in nearby Mystic.
- \**Eschscholzia californica* Cham., California poppy. Scarce, Disturbed land, Waif. S side US Rt. 1 near VFW post opposite Long Wharf Road on landfill, 7 Aug 1991, 22512 (srh, CLEMS, NY). First report for southeastern Connecticut.

## PHYTOLACCACEAE

- Phytolacca americana* L., Pokeweed. Occasional, Disturbed land, Stable. 9371 (srh, MARY, NY, TAES, VT).

## PLANTAGINACEAE

- \**Plantago aristata* Michx., Buckhorn plantain. Infrequent, Disturbed land, Stable. 21688 (srh, CLEMS, GH, NYS).
- \**Plantago lanceolata* L., English plantain. Occasional, Disturbed land, Stable. 11806 (srh).
- \**Plantago major* L., Common plantain. Occasional, Disturbed land, Stable. 21599 (srh, CLEMS, GH, NY, NYS, TAES, USF).
- Plantago maritima* L., subsp. *juncoides* (Lam.) Hultén, Seaside plantain. Infrequent, Tidal marshes, Declining. I have seen little of this in recent years. NE quadrant of Latimer Point, 28 Aug 1983, 13214 (srh, GH, MARY, MO, NY, TAES, VT).

## PLUMBAGINACEAE

- Limonium carolinianum* (Walt.) Britton, Sea lavender. Occasional, Tidal marshes, Stable. 9431 (srh, CLEMS, MARY, MO, NY, TAES, VT); 13217 (srh, GH, MARY, MO, NY, TAES, VT).

## POLYGALACEAE

- Polygala sanguinea* L., Common milkwort. Scarce, Disturbed land, Freshwater marshes, Stable. 21734 (srh, CLEMS, GH, NYS).

## POLYGONACEAE

- \**Polygonum aviculare* L., Knotweed. Infrequent, Disturbed land, Coastal beaches and dunes, Stable. 8754 (srh, MARY, VT).
- \**Polygonum convolvulus* L., Black bindweed. Occasional, Disturbed land, Stable. 21767 (CLEMS, NY, NYS); 22482 (CLEMS, GH, NY, TAES, USF).
- \**Polygonum cuspidatum* Sieb. & Zucc., Japanese bamboo. Infrequent, Disturbed land, Stable. 22507 (srh, CLEMS, GH, NY, USF).
- \**Polygonum hydropiper* L., Water-pepper. Occasional, Disturbed land, Stable. 21686 (srh, CLEMS, NYS); 22508 (srh, CLEMS, GH, NY, TAES, USF).
- Polygonum hydropiperoides* Michx., Mild water-pepper. Occasional, Freshwater marshes, Stable. 9358 (MARY, NY, TAES, VT); 9369 (MARY, NY, TAES, VT).
- Polygonum pensylvanicum* L., Smartweed. Occasional, Disturbed land, Coastal beaches and dunes, Stable. 21633 (srh, CLEMS).
- \**Polygonum persicaria* L. [incl. *P. dubium* Stein], Lady's-thumb. Occasional, Disturbed land, Stable. 22505 (srh, CLEMS, GH, NY, USF); 22509 (srh, CLEMS).
- Polygonum punctatum* Ell., Smartweed. Occasional, Disturbed land, Freshwater marshes, Stable. 8732 (srh, MARY, VT).
- Polygonum ramosissimum* Michx., Knotweed. Occasional, Tidal marshes, Stable. 9434 (srh, MARY, MO, NY, TAES, VT).
- Polygonum sagittatum* L., Tear thumb. Infrequent, Freshwater marshes, Stable. 21754 (srh, CLEMS, NYS).
- Polygonum scandens* L., Climbing wild buckwheat. Occasional, Disturbed land, Stable. 935 (VT) 8737 (srh, MARY, NY, TAES, VT).
- \**Rumex acetosella* L., Sour-grass. Occasional, Disturbed land, Stable. 21611 (srh, CLEMS, GH, NY, NYS).

\**Rumex crispus* L., Curly dock. Occasional, Disturbed land, Stable. 21604 (srh, CLEMS, GH, NY, NYS).

#### PORTULACACEAE

\**Portulaca oleracea* L., Purslane. Occasional, Disturbed land, Stable. 21639 (srh, CLEMS).

#### PRIMULACEAE

\**Lysimachia punctata* L., Garden loosestrife. Infrequent to Occasional, Disturbed land, Increasing. Only in cultivation through the early 1980s, the species has escaped and become successfully established on the Point in the late 1980s and early 1990s. Latimer Point garden, 28 Jun 1982, 11802 (srh, MARY, NY, VT); SW quadrant of Latimer Point near main beach, 17 Jul 1990, 21644 (srh, CLEMS, GH, LG, NCU, NY, TAES, USF).

*Lysimachia quadrifolia* L., Whorled loosestrife. Occasional, Oak forest, Stable. 21715 (srh, CLEMS, GH, NCU, NY).

#### PYROLACEAE [within Ericaceae in Tucker 1995]

*Chimaphila maculata* (L.) Pursh, Spotted wintergreen. Scarce, Oak forest, Stable. 21782 (srh).

*Pyrola elliptica* Nutt., Common shinleaf. Scarce, Oak forest, Shrub swamps, Stable. 22485 (srh, CLEMS).

#### RANUNCULACEAE

*Anemone quinquefolia* L., Windflower. Occasional, Oak forest, Stable. 10082 (srh, MARY, NY, VT); 23088 (srh, CLEMS, GH, MO, NY, USF).

*Clematis virginiana* L., Clematis. Scarce, Oak forest margin, Stable. 21784 (srh, CLEMS, GH, MO).

\**Consolida ambigua* (L.) P.W. Ball & Heywood [*Delphinium ajacis* L.], Delphinium. Scarce, Disturbed land, Waif. 17062 (srh, VT).

\**Ranunculus bulbosus* L., Bulbous buttercup. Infrequent, Disturbed land, Increasing. 21743 (srh, CLEMS); 23104 (srh, CLEMS).

*Thalictrum pubescens* Pursh [*T. polygamum* Muhl.], Tall meadow rue. Infrequent, margins of Oak forest and Shrub swamps, Stable. 9309 (MO, NY, VT); 9353 (srh); 21656 (CLEMS, GH, NY, NYS, TAES, USF).

#### RHAMNACEAE

\**Rhamnus frangula* L., Alder buckthorn. Infrequent, Disturbed land, Increasing. A new arrival on the Point, first noted with this collection. NE quadrant of Latimer Point, 5 Aug 1991, 22473 (srh, CLEMS, NY, TAES).

#### ROSACEAE

*Amelanchier canadensis* (L.) Medikus, Shadbush. Frequent, Oak forest, Stable. 9114 (srh, NY, VT); 23100 (srh, CLEMS, GH, ILLS, MO, NY, SMU, TAES, TEX, USF).

*Aronia arbutifolia* (L.) Ell., Red chokeberry. Infrequent, Freshwater marshes, Disturbed land, Stable. 9386 (srh, MARY, NY, TAES, VT).

- Aronia prunifolia* (Marsh.) Rehd., Chokeberry. Occasional, Oak forest margin, Stable. 9105 (srh, MARY, VT).
- Crataegus pruinosa* (Wendl. f.) K. Koch, Hawthorn. Infrequent, Shrub swamps, Oak forest margin, Stable. 10094 (srh, GH, MARY, MO, NY, TAES, VT).
- Fragaria virginiana* Duchesne, Wild strawberry. Occasional, Disturbed land, Stable. 21657 (srh, CLEMS, GH, MOR); 23107 (srh, CLEMS).
- Geum canadense* Jacq., White avens. Occasional, Disturbed land, Stable. 21618 (CLEMS, MOR).
- \**Malus floribunda* Sieb., Flowering crabapple. Infrequent, Disturbed land, Stable. 23096 (srh, ILLS, TAES, USF).
- \**Malus pumila* Mill. [*Pyrus malus* auth.], Wild apple. Infrequent, Oak forest margin, Disturbed land, Stable. 9104 (srh, MARY, VT).
- \**Potentilla argentea* L., Silvery cinquefoil. Infrequent, Disturbed land, Stable. 10069 (srh).
- Potentilla canadensis* L., Common cinquefoil. Occasional, Disturbed land, Stable. 23122 (CLEMS, GH, MO, NY, USF).
- Potentilla norvegica* L., Rough cinquefoil. Infrequent, Disturbed land, Stable. 9392 (srh); 21647 (srh). According to Gleason and Cronquist (1991) our plants may or may not be native.
- \**Potentilla recta* L., Upright cinquefoil. Scarce, Disturbed land, Stable. 21729 (srh, CLEMS).
- Potentilla simplex* Michx., Cinquefoil. Occasional, Oak forest margin, Disturbed land, Stable. 10099 (srh, MARY, NY, TAES, VT).
- Prunus serotina* Ehrh., Wild black cherry. Occasional to Frequent, Oak forest margins, Disturbed land, Stable. 9408 (srh, MARY, MO, NY, TAES, VT).
- \**Pyrus communis* L., Pear. Scarce, Disturbed land, Stable. 10068 (srh, GH, MARY, MO, NY, TAES, VT).
- \**Rosa multiflora* Thunb., Multiflora rose. Occasional to locally frequent, Disturbed land, Oak forest margin, Stable. 11804 (srh, MARY, NY, VT).
- \**Rosa rugosa* Thunb., Beach rose. Occasional, Coastal beaches and dunes, Stable. 314 (VT); 8755 (srh, MARY). The white flowered form also occurs here but is scarce: 315 (VT); 21779 (srh, CLEMS, MOR).
- Rosa virginiana* Miller, Wild rose. Occasional to Frequent, margin of Oak forest, Tidal marshes, Stable. 293 (VT); 9313 (srh MARY, MO, NY, TAES, VT); 10804 (srh, MARY, NY, TAES, VT); 11805 (srh, MARY, NY, TAES, VT).
- Rubus allegheniensis* Porter ex Bailey, Northern blackberry. Occasional, Disturbed land, Stable. 21666 (srh, CLEMS, GH, NY, MOR).
- Rubus flagellaris* Willd., Northern dewberry. Occasional, Disturbed land, Stable. 10093 (srh, GH, MARY, NY, TAES, VT).
- Spiraea alba* Duroi var. *latifolia* (Ait.) Dippel, Meadowsweet. Occasional, Freshwater marsh, Stable. 9376 (srh, MARY, NY, VT).
- Spiraea tomentosa* L., Steeplebush. Occasional, Freshwater marsh, Stable. 9370 (srh, GH, MARY, MO, NY, TAES, VT).

#### RUBIACEAE

- \**Galium aparine* L., Bedstraw. Occasional, Disturbed land, Stable. 23119 (srh, CLEMS, NY, USF).

\**Galium mollugo* L., White bedstraw. Occasional, Disturbed land, Stable. 21752 (srh, CLEMS, NYS).

*Galium obtusum* Bigel., Marsh bedstraw. Occasional, Freshwater marshes, Stable. 1164 (VT as *G. tinctorium*); 9365 (srh, MARY, NY, VT).

#### SALICACEAE

\**Populus alba* L., White poplar. Infrequent, Disturbed land, Stable. 10072 (srh, GH, MARY, MO, NY, TAES, VT).

*Populus tremuloides* Michx., Quaking aspen. Infrequent, Disturbed land, Increasing. 21665 (srh, CLEMS, GH, NY, MOR); 23093 (srh, CLEMS).

\**Salix alba* L., White willow. Occasional, Disturbed land, Stable. 21758 (srh, CLEMS).

\**Salix cinerea* L., Ashy European willow. Infrequent, Shrub swamps, Stable. 9119 (srh, MARY, MO, NY, VT).

*Salix eriocephala* Michx., Wand willow. Infrequent, Shrub swamps, Stable. 10076 (srh, MARY, NY, TAES, VT); 23082 (srh, ILLS, NY, SMU, TAES, USF).

#### SCROPHULARIACEAE

*Agalinis maritima* (Raf.) Raf., Salt marsh gerardia. Occasional, Tidal marshes, Stable. 929 (NY, VT); 9433 (srh, MARY, MO, NY, TAES, VT); 13218 (GH, MARY, MO, NY, TAES, VT).

*Linaria canadensis* (L.) Dum.-Cours., Toadflax. Occasional, Disturbed land, Stable. 1155 (VT); 9331 (srh, MARY, TAES, VT).

\**Linaria vulgaris* Mill., Butter-and-eggs. Occasional, Disturbed land, Stable. 9394 (srh).

*Lindernia anagallidea* (Michx.) Pennell, False pimpernel. Infrequent, Freshwater marshes, Stable. 9375 (srh, MARY, NY, VT).

\**Paulownia tomentosa* (Thunb.) Sieb. & Zucc. ex Steud., Princess tree. Infrequent, Disturbed land, Increasing. Not seen in the area until first sighting in 1991, it is likely to become much more common in the future since this individual was already fertile though only 3 m tall. Dodges Island, 8 Aug 1991, 22516 (srh, CLEMS, GH, NY) [included in Bignoniaceae by Tucker 1995].

*Scrophularia lanceolata* Pursh, Figwort. Occasional, Disturbed land, Stable. 7445 (srh, TAES, VT); 11834 (srh, GH, MARY, MO, NY, TAES, VT, WS).

\**Verbascum thapsus* L., Common mullein. Infrequent to Occasional, Disturbed land, Stable. 21602 (CLEMS, ISC, NY).

\**Veronica arvensis* L., Corn speedwell. Occasional, Disturbed land, Stable. 23125 (CLEMS, GH, MO, NY, TAES, USF).

*Veronica peregrina* L. subsp. *peregrina*, Neckweed. Occasional, Disturbed land, Stable. 10246 (srh, GH, MARY, MO, NY, TAES, VT); 21606 (CLEMS).

#### SIMAROUBACEAE

\**Ailanthus altissima* (Mill.) Swingle, Tree-of-Heaven. Infrequent to locally Frequent, Disturbed land, Increasing. A few trees were found already mature on Dodges Island in 1980; by 1982 this had become an almost pure grove taking the place of *Prunus*, *Rhus* and *Myrica* at this site. In 1991 one individual was first seen on Latimer Point opposite Dodges Island near the main beach. It is likely to become much more common in the future. Dodges Island, 16 Aug

1980, 9448 (srh, MARY, MO, NY, TAES, VT); same locality, 12 Jul 1982, 11831 (CLEMS, GH, MARY, NY, TAES, VT); same locality, 11832 (srh, GH, MARY, NY, TAES, VT).

#### SOLANACEAE

- \**Datura stramonium* L., Jimson-weed. Occasional, Coastal beaches and dunes, Disturbed land, Stable. Most common around dead *Zostera* piles at the upper beach strand. 791 (VT); 8738 (srh, MARY).
- \**Physalis alkekengi* L., Chinese lanterns. Scarce, Disturbed land, Stable. 21725 (srh, CLEMS).
- \**Solanum dulcamara* L., Climbing nightshade. Occasional, Disturbed land, Stable. 21616 (srh, CLEMS, CTES, GH, NY, NYS, TAES, USF).
- Solanum ptychanthum* Dun. ex DC. [*S. americanum* auth., often incl. within *S. nigrum* L.], Black nightshade. Occasional, Coastal beaches and dunes, Disturbed land, Stable. 945 (GH, NY, VT); 21637 (srh).

#### ULMACEAE

- Ulmus americana* L., American elm. Occasional to Infrequent, Shrub swamps, Declining. Upper leaf surfaces rough in this population. As in most of New England, large mature trees of the species have declined due to Dutch Elm disease, but younger trees still seem to survive and reproduce. 21722 (CLEMS, GH, LG, NY, NYS, USF).

#### URTICACEAE

- Urtica dioica* L. subsp. *gracilis* (Ait.) Solander, Stinging nettle. Infrequent, Disturbed land, Increasing. 10798 (srh, MARY).

#### VERBENACEAE

- Verbena hastata* L., Blue vervain. Occasional, Disturbed land, Stable. 9449 (srh, MARY, NY, TAES, VT); 21614 (CLEMS, GH, NY, NYS).

#### VIOLACEAE

- Viola fimbriatula* Sm., Northern downy violet. Infrequent, Disturbed land, Stable. 21684 (srh, CLEMS).
- Viola lanceolata* L., Lance-leaf violet. Infrequent, Disturbed land, Stable. 1165 (VT); 9108 (MARY); 21683 (srh).
- \**Viola priceana* Pollard [often incl. in *V. sororia* Willd.], Confederate violet. Infrequent, Disturbed land, Stable. SE quadrant of Latimer Point, residential area lawn weed, 13 May 1992, 23103 (srh). First report for southeastern Connecticut, but probably included previously within *V. sororia*.
- Viola sagittata* Ait. [may = *V. fimbriatula* Sm.], Arrow-leaf violet. 23081 (srh, CLEMS, NY).
- \**Viola sororia* Willd., Common blue violet. Occasional, Disturbed land, Stable. 23121 (CLEMS, GH, NY, USF).
- \**Viola tricolor* L., Johnny-jump-up. Scarce, Disturbed land, Waif. Escape from gardens, may not persist for long. SE quadrant Latimer Point, 5 Jul 1980, 9333 (srh, MARY).



## VITACEAE

\**Ampelopsis cordata* Michx. Scarce, Disturbed land, Increasing. First seen in 1980 along Pequotsepos Road just outside of this study area, it has now spread closer to the Point. S side US Rt. 1 near VFW post opposite Long Wharf Road in landfill, 7 Aug 1991, 22506 (srh, CLEMS, GH, NY).

*Parthenocissus quinquefolia* (L.) Planchon, Virginia creeper. Frequent, Oak forest, Disturbed land, Stable. Similar to and confused with *Parthenocissus vitifolia* (Knerr) A. Hitchc., which has been collected in nearby Mystic and may also occur on the Point. 21661 (srh, CLEMS, GH, LG, NY, NYS).

*Vitis labrusca* L., Fox grape. Abundant, Oak forest margins, Stable. 11807 (srh, GH, MARY, MO, NY, OKL, OSC, RENO, TAES, UTC, VT, WIS, WS).

## DISCUSSION

Seymour (1969) reports 2882 vascular plant species present in New England, 2005 (70%) of which are native and 877 (30%) of which are non-native. Dowhan (1979) reports 2489 vascular plant species in Connecticut, 1636 (66%) of which are native and 853 (34%) of which are non-native. Tucker (1995) reports 1550 vascular plant species in southeastern Connecticut of which 1170 (75%) are native and 380 (25%) non-native. The flora of Latimer Point and vicinity includes 385 vascular plant species, 248 (64%) of which are native taxa and 137 (36%) of which are non-native. The proportion of native and non-native species in these floras remains rather constant despite major differences in coverage area. This list represents primarily the coastal element of the flora reported by Tucker (nearly 25% of the total flora of southeastern Connecticut or nearly 16% of the entire state flora).

The flora of Latimer Point and vicinity was searched out and studied during the period 1969 to 1992. Four-hundred twenty-seven taxa of plants are listed in this paper, of which 30 are marine macroalgae, 12 are mosses, 10 are ferns and fern allies, 1 is a conifer, and 374 are flowering plants (107 monocots and 267 dicots). There are 92 vascular plant families represented, the five largest being Poaceae (53 taxa), Asteraceae (39), Cyperaceae (25), Rosaceae (22), and Fabaceae (20). The two largest genera represented are *Carex* and *Polygonum*, each with 11 species. Among the elements of the flora, 381 taxa have had stable populations during the period, 30 have seen their numbers increase (23 exotics and 7 natives), and 16 have seen their numbers decline (3 exotics and 13 natives). One species (*Honckenya peploides*) was found which has been listed as a Connecticut Species of

Special Concern. One species listed as endangered in Connecticut (*Ligusticum scothicum*) was also found, and another (*Angelica lucida*) has been reported from the study site.

Seven plant habitats are described in the vicinity of Latimer Point, and the numbers of all taxa most commonly found in each include 32 in the estuaries, 22 on the coastal beaches and dunes, 30 in the tidal marshes, 44 in the freshwater marshes, 25 in the shrub swamps, 63 in the oak forest, and 211 on disturbed lands. The large percentage (49%) of taxa found primarily in disturbed areas reflects the history of human and natural coastal disturbance characteristic of coastal New England today.

Exotic species have increased in disturbed areas, but not in the more mature plant associations. Of the 23 exotics that have become more common over the past 24 years, 9 have presumably been dispersed widely by birds which eat their fleshy fruits (*Ampelopsis cordata*, *Berberis thunbergii*, *B. thunbergii* var. *atropurpurea*, *Elaeagnus umbellata*, *Euonymus alatus*, *Ligustrum vulgare*, *Lonicera japonica*, *Lonicera morrowii*, *Rhamnus frangula*). Seven of the increasing exotics are dispersed primarily by wind (*Acer platanoides*, *Acer pseudoplatanus*, *Hypochoeris maculata*, *Lactuca serriola*, *Sonchus arvensis*, *Paulownia tomentosa*, *Ailanthus altissima*). One is a recent garden escape (*Lysimachia punctata*) and the remainder are opportunistic species that have increased by chance with human disturbance of the landscape (*Artemisia vulgaris*, *Centaurea maculosa*, *Chelidonium majus*, *Ipomoea purpurea*, *Ranunculus bulbosus*, *Spergularia marina*). Seven species (*Abutilon theophrasti*, *Consolida ambigua*, *Eschscholzia californica*, *Panicum millaceum*, *Silene armeria*, *Stachys byzantina*, *Viola tricolor*) were seen once and not again and are reported here as waifs; of these the first and fourth are widespread weeds which may have been introduced in bird seed or fill dirt, and the remaining five are all garden plants that were probably casually discarded and were only briefly established. The flora and fauna have been impacted by human activities resulting in a high percentage of non-native species, but the remaining native terrestrial flora has not seriously declined.

Seven native species increased their numbers during the observation period. The green alga *Cladophora albida* has possibly increased due to increased nutrient content (pollution) of the coastal waters. *Cuscuta pentagona*, dodder, is an opportunist with no obvious reason for its increase. *Dennstaedtia punctilobula* is

a fern which has increased due to brush clearing near the residential areas of the point because it prefers this open habitat to a closed canopy. *Lycopus americanus* and *Phragmites australis* have expanded along US Rt. 1 because of increased trenching of roadsides and disturbance of wetland communities in this area. *Populus tremuloides* and *Urtica dioica* may be increasing their ranges due to increased disturbance along roadsides.

Sixteen species declined in numbers of individuals during the period of observation. Three of these were exotic species which apparently were not very competitive with the native flora or their fellow exotics (*Anthemis cotula*, *Artemisia stelleriana*, *Berberis vulgaris*). Among the 13 native species in decline, 3 are marine algae that may be decreasing due to pollution, though other factors may be involved (*Chondrus crispus*, *Dasya baillouviana*, *Leathesia difformis*). The filling of wetlands, as well as increased herbicide use along the railroad which passes through the wetlands, may be responsible for the decline in four species (*Carex intumescens*, *Cyperus diandrus*, *Hibiscus palustris*, *Nymphaea odorata*). It is tempting to speculate that warming of the environment is responsible in part for the decline in three generally more northern species (*Honckenya peploides*, *Osmunda claytoniana*, *Plantago maritima*). Predation by gypsy moths was the apparent cause for a decline in *Quercus bicolor*, and Dutch elm disease has continued to take its toll on *Ulmus americana*. *Betula populifolia* seems to be in decline due to the increased use of herbicides along the woodland margins bordering the railroad, a habitat which it prefers.

I was able to observe several other vegetation changes over time. During the 24 year observation period the trees of the oak forest became taller and more massive despite several hurricanes and storms. As shade increased, the *Smilax* and *Vitis* colonies have declined slightly in the former openings in the forest. The *Zostera* populations in the bay have fluctuated greatly; there was a period in the 1970s and 1980s when there were none to be found, while in the late 1980s and early 1990s it was difficult to get a boat through the massive colonies in the estuaries. The flora is in rather good condition. Since the beginning of my observations, no native taxa have been lost. However, there is an influx of exotic species still taking place, and the more fragile islands and any disturbed lands soon may have forests dominated by *Ailanthus altissima* and *Paulownia tomentosa*, if they do not al-

ready. Furthermore, the native white-tailed deer population has increased noticeably with the lack of hunting and the increased foraging may lead to a decline of the more edible species. The deer sometimes are seen swimming from island to island.

The coastal flora is a resilient one; it has developed in the presence of storms, tidal surges, erosion and other disturbance, so humankind probably cannot destroy it completely except by paving it over. However, the mature oak forests of the area have been gone for well over 150 years and are unlikely to return any time soon. Gypsy moths arrived in the area in the early 1980s and for several years in succession stripped the oaks (especially *Quercus bicolor*) of leaves. The infestation seems to have stabilized and is in decline in the early 1990s.

The aquatic animals have declined. When I first started exploring the area, harbour seals sometimes were seen on the rocks at Lyddy Island and the outer islands were homes to large colonies of common terns. In the clear shallow waters, horseshoe crabs were common, and edible fish such as flounder and blackfish were plentiful offshore. Steamer clams could be dug somewhat easily in the mudflats of the estuaries. During these earlier years, sea urchins and sea cucumbers could be found in the lower tide pools, squid sometimes were found breeding in the shallow waters north of Lyddy Island, and blue mussels abounded. While this area has been spared of much of the pollution found in other parts of coastal Connecticut it has not been spared all of it. In the last decade and a half the fishing areas and shellfish beds have been closed often due to algal and bacterial blooms, which, along with silt, nearly obscure the formerly clear waters. The coastal trawlers (and, possibly, pollution) have eliminated nearly all of the edible sport fish. The mussels and steamer clams nearly are gone (probably due to over-harvesting as well as siltation), and I have not seen a sea urchin, or sea cucumber, or even a starfish there for years. On the encouraging side, the central portion of Latimer Point has been protected from development by The Nature Conservancy, the bird and mammal fauna seems healthy, quahogs and cherrystone clams are rather common, and a seal or two has been seen again in Fishers Island Sound.

ACKNOWLEDGMENTS. I would like to thank the late Frank Gould (TAES) for assistance with the identification of some grasses, Tony Reznicek (MICH) and Gordon Tucker (NYS, now at EIU)

for assistance with sedge identifications, Craig W. Schneider (tr) for assistance with the algae, and Lewis Anderson (DUKE) for assistance with the mosses. I also thank Stacey Kingsbury of the Connecticut Natural Resources Center for information on historical species records for listed Connecticut plants. Comments on the manuscript by Rick Phillippe and Geoff Levin (both ILLS) and two anonymous reviewers have been especially useful. Special thanks go to my parents Margaret E. and Richard J. Hill, to whom this paper is dedicated, for putting up with a budding botanist and the inconveniences and associated messes over the years of this study, and for constant encouragement to explore and retain a sense of wonder.

#### LITERATURE CITED

- DOWHAN, J. J. 1979. Preliminary Checklist of the Vascular Flora of Connecticut. Report of Investigations No. 8. Connecticut Geological and Natural History Survey, Hartford, CT.
- GLEASON, H. A. AND A. CRONQUIST. 1991. Manual of Vascular Plants of Northeastern United States and Adjacent Canada. 2nd ed. The New York Botanical Garden, Bronx, NY.
- HILL, S. R. 1995. How to make a plant collection. Herbarium Supply Co., Menlo Park, CA.
- HOLMGREN, P. K., N. H. HOLMGREN, AND L. C. BARNETT, eds. 1990. Index Herbariorum. Part I: The Herbaria of the World. 8th ed. New York Botanical Garden, Bronx, NY.
- SCHNEIDER, C. W. AND R. B. SEARLES. 1991. Seaweeds of the Southeastern United States. Duke University Press, Durham, NC.
- SEYMOUR, F. C. 1969. The Flora of New England. C.E.Tuttle Co., Inc., Rutland, VT.
- THOMPSON, E. 1950. Draggerman's Haul. Viking Press, New York.
- TUCKER, G. C. 1995. The Vascular Flora of Southeastern Connecticut. Memoirs of the Connecticut Botanical Society No. 3.